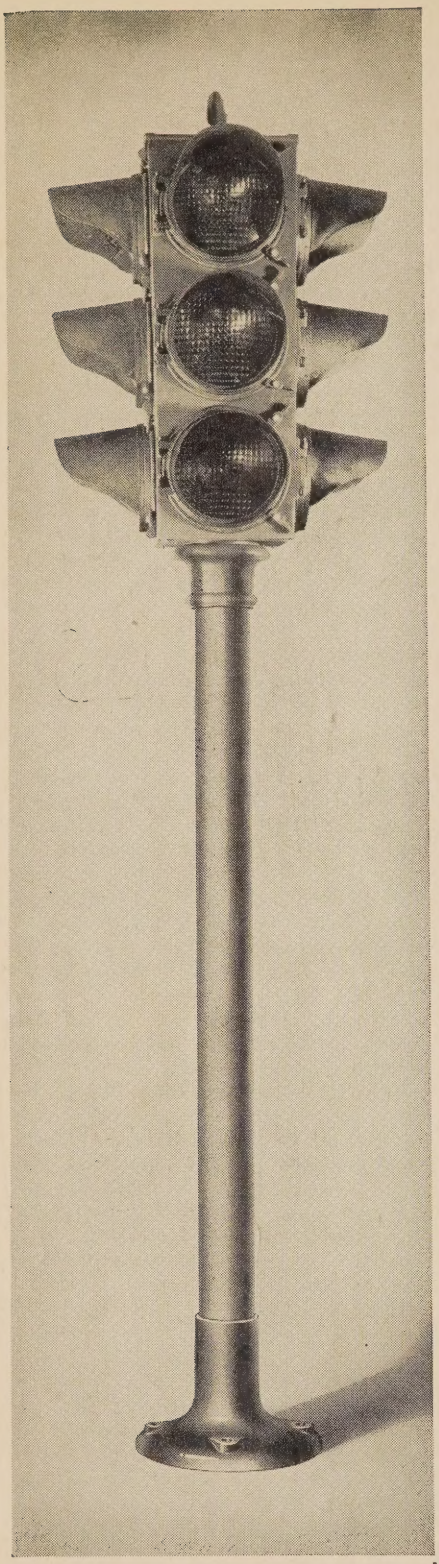
Everything for Municipalities

WATERWORKS
•
STREETS
•
SEWERS
•
TRAFFIC SIGNS
•
POLICE and FIRE EQUIPMENT

CATALOG
NO. 17

GENERAL CITY SERVICE CO.

2200 E. Jefferson Ave. DETROIT



The above Post Mounted SAFEWAY can be built to order any way you like: 3-Color, 4-Way; 2-Color, 4-Way; 3-Color, 2-Way; 3-Color, 1-Way, etc. Write for prices on your particular requirements.

WE CAN SUPPLY OUR SPECIAL PRESSED STEEL WEATHER-PROOF BOX FOR AUTOMATIC SAFEWAY CONTROL FOR **$12.50**

FOR QUICK SERVICE WIRE COLLECT. WE PAY ALL CHARGES

Read This about SAFEWAY Signals

SAFEWAY Traffic Signals can be supplied to fit any street conditions from the one way, one light Flasher to the six way, adjustable red, green and amber signals. All housings are completely dust and moisture proof. All materials are non-corrosive and rust proofed.

OPTICAL UNITS

Each lens is standard 8⅜ inches in diameter. Behind each lens is a polished parabolic reflector, specially designed for long years of non-tarnishing traffic signal service. EACH OPTICAL UNIT IS EQUIPPED WITH A SEPARATE LAMP RECEPTACLE. This scientific construction and design greatly reduces false colors or phantom lights from the sun. The shade holder carries the lens and is hinged to the signal body. No tools are required for servicing.

MAIN FRAME

The main frame is of strong pressed steel of a pleasing design. The entire signal is finished in green with black shades. This is the most popular color combination. However, any color can be supplied when specified at the time of purchase at no additional cost.

INSTALLATION

All signals are furnished with strong span wire suspension clamp or 4-inch pipe post collars. Special brackets for mounting on the side of posts or poles can be furnished.

WIRING

Only two wires are necessary to connect the signal.

CONTROL

The control is of an exceptionally rugged design with all gears running in an oil bath. Motor is of the precision synchronous type and will positively stay in step with other controls of our manufacture as long as the 110 Volt A. C. current is applied. Special circuit arrangements can be supplied at no extra cost that will allow signals to be installed and operated as a coordinated unit. All contacts are of the quick make and break type, enclosed in dust and moisture proofed housings. Separate controls can be furnished mounted in pressed steel weatherproof cases that will operate any traffic light of any manufacture.

ADJUSTABLE SIGNALS

All adjustable signals have positive locking devices that hold each signal body in rigid alignment after adjusting. Each lens holder is hinged to the signal body, same as in the non-adjustable signals.

FLASHING BEACONS

The one light, four way Flashing Beacon is built on the same frame as the standard SAFEWAY signal, using the same optical unit and has a built-in flasher mounted in the main housing. Radio interference eliminators can be furnished on order.

SAFEWAY Adjustable Traffic Signals

SUSPENDED TYPE

Finest Obtainable for Diagonal Intersections

Each individual unit of this suspended type SAFEWAY is adjustable to any angle to throw the light beams where a diagonal street crosses a straight street. Very evenly balanced.

Standard SAFEWAY construction throughout with separate optical units behind each lens, polished parabolic reflectors and perfectly focused lenses. Easily adjustable to any angle.

The SAFEWAY Adjustable Suspended Signal is complete, ready to install. Included is our special SAFEWAY Control in separate, pressed steel, weatherproof box, ready for installation at curb.

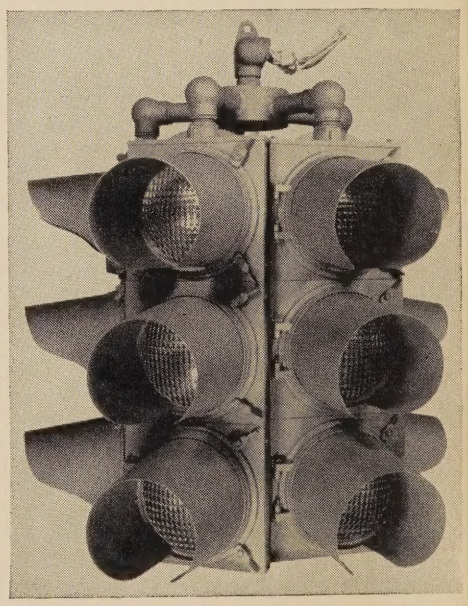
No. 21 SAFEWAY Adjustable Suspended 3-Color 4-Way Signal, wired complete, including control **$189.95**

No. 22 SAFEWAY Adjustable Suspended 3-Color 3-Way Signal, wired complete, including control **$159.95**

No. 23 SAFEWAY Adjustable Suspended 2-Color 4-Way Signal, wired complete, including control **$169.95**

No. 24 SAFEWAY Adjustable Suspended 2-Color 3-Way Signal, wired complete, including control **$147.95**

AVERY LIBRARY
COLUMBIA UNIVERSITY



Automatic SAFEWAY Control—Complete Only $37.25

The new, marvelously compact SAFEWAY Automatic Control is just about perfection in traffic signal engineering. So small it can be held in the palm of the hand, yet exceptionally rugged in principle and design and constructed to last indefinitely. Completely automatic and trouble free. Never needs attention. Requires lubrication only once a year. Motor is very minute and operates your signal for only a few pennies a year.

This is the control included with every SAFEWAY Signal from General City Service Co. It is SYNCHRONOUS also and will positively stay in step with other signals of our make. You can order the SAFEWAY Automatic Control for installation in any traffic signal, our manufacture or any other make. Easily installed locally. Or the SAFEWAY Control can be ordered complete in our Pressed Steel Weather-proof Box for installation at curb.

No. 14 Automatic SAFEWAY Control for any 3-color Traffic Signal **$37.25**

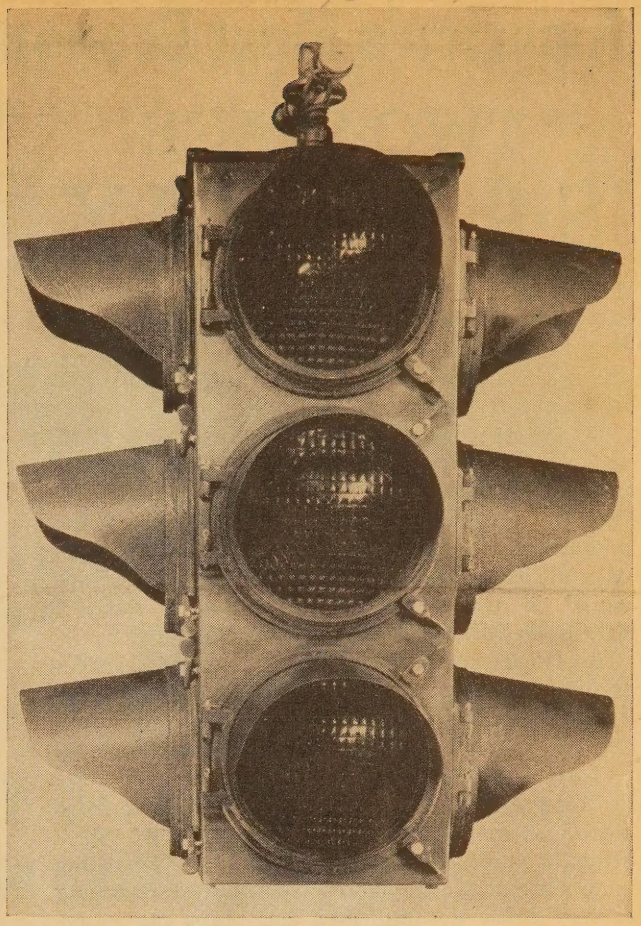
No. 15 Automatic SAFEWAY Control, for any 2-Color Traffic Signal **35.95**

No. 16 Automatic SAFEWAY Control, same as No. 14, but with extra contact built in for split amber control, so that the amber light comes on ONLY when signal is changed from green to red. A safety feature that prevents waiting traffic from jumping the green light by starting when the amber light shows. For any 3-Color Traffic Signal **41.25**

SAFEWAY TRAFFIC SIGNALS

Only $126.95

Designed and Built in Strict Accordance with all State Laws



Here is the famous General SAFEWAY Three Stage Traffic Signal, the finest on the market, furnished complete with BUILT-IN CONTROL and span wire hanger. To comply with State Laws this signal is made with a SEPARATE LIGHT SOURCE BEHIND EACH LENS. Behind each lens also is a polished parabolic reflector specially designed for long years of non-tarnishing traffic signal service. Lenses are arranged with four red at the top, four amber in the center and four green at the bottom. Bulbs should be at least 40 watt.

SAFEWAY Signals have housings of heavy pressed steel, substantially designed and constructed. All fastening screws are of bronze or rust-proof steel. The housings carry the reflectors and shade holders.

The shade holders are also made of pressed steel and carry the lenses and sun shades. They are attached to the signal with bronze hinge pins and quick-action door catches. Bulbs can be easily replaced without the use of tools.

Latest Design Lenses and Reflectors

SAFEWAY lenses are 8⅜ inches in diameter, convex in shape and are specially designed to direct the rays down and at an angle of approximately 30° to the side. The lenses are securely held in the shade holders with a continuous spring retainer and dustproofed with rubber gaskets.

The shades are of rust-proof construction, specially designed to prevent showing the signal on the side. They are easily detachable and designed to prevent damage to the signal body if the shade should accidentally be hit by high loads or trucks. This is a very desirable feature, as a shade can be replaced for a very few cents and, being on non-breakable material, they will bend instead of break.

Polished parabolic reflectors are supplied behind each lens and are designed to reduce phantom lights caused by the sun and also to meet the requirements of all State laws. No false signals can be shown.

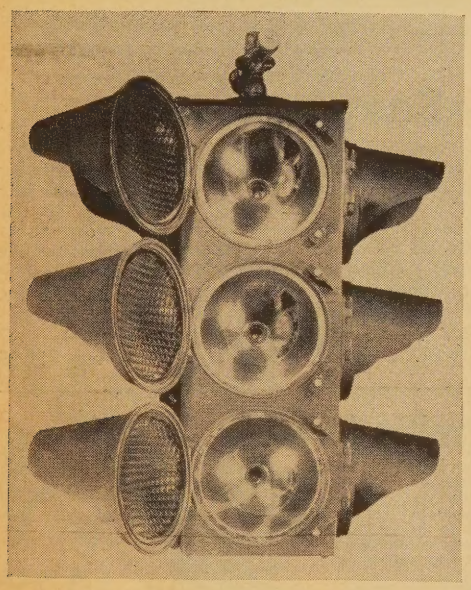
The lamp receptacle is of a special signal type properly focused for traffic signal service. All connections are securely soldered.

Completely Automatic, with Built-In Controller, SAFEWAY Signals are equipped with heavy duty synchronous controls, installed in the bottom of the signal housing. The control contacts carrying the lamp load are of the quick make and break type, specially designed for trouble-free traffic signal service. Standard timing 40 seconds total cycle, with 25 seconds go and 15 seconds stop on the main street, and 25 seconds stop and 15 seconds go on the cross street. Other standard timing can be furnished if specified at time of purchase. The amber can be set to show from 3 to 5 seconds four ways. All gears in the control are fully enclosed and running in an oil bath. Contacts are in dust-proof housings. Lubrication is required only once a year.

No. 46 SAFEWAY Traffic Signal, Three-Stage Suspended Type, with Built-In Control, all wired and ready to hang **$126.95**

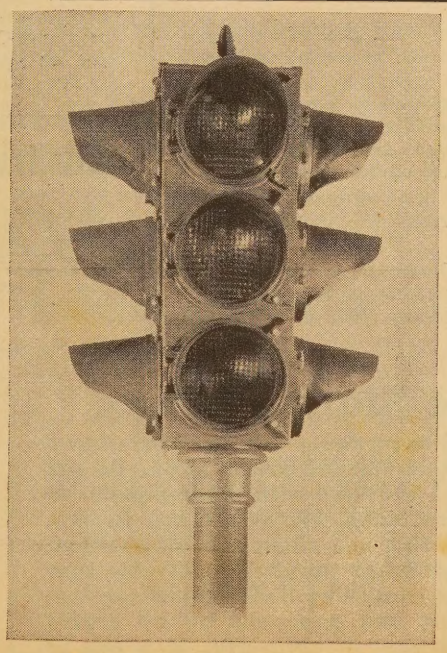
No. 46-SA SAFEWAY Traffic Signal, same as the No. 46 except control has extra contact arrangement for SPLIT AMBER control (this is recommended by the National Safety Council), as it prevents the showing of the amber following the red and keeps one car from stealing or running the amber. This is a very desirable feature and one that is only incorporated in the most expensive controls. All wired and ready to hang **129.95**

TELEGRAPH COLLECT—WE PAY ALL CHARGES



Interior View — with entire visor and shade assembly swung back — showing the fool-proof SAFEWAY construction with separate light source and reflector behind each lens.

This is the ONLY type signal approved in all States and approved by all recognized authorities. Notice the separate reflectors for each bulb, parabolic type, specially designed for traffic signal service.



GENERAL SAFEWAY POST MOUNTED SIGNAL

Same construction as the No. 46 SAFEWAY Suspended Type Traffic Signal described above with separate light source and separate reflector behind each lens. This construction is clearly shown in the interior view of the signal at the left.

This signal is furnished with a special collar casting for mounting on a steel post 4½ in. in diameter. The post can be buried in the concrete or set in a heavy cast iron base that can be anchored to the ground. Any local electrician can do the wiring job.

Built-In Automatic Controller

With the famous built-in SAFEWAY controller inside each signal, installation is a simple matter. It is not necessary to break ground or pavement to connect two or more corner signals to operate from a separate curb controller. With our SAFEWAY Control built into each signal, any number of signals can be made to operate in perfect harmony and with a synchronized timing arrangement. Any number of signals along a particular street or on corners can be synchronized. They can be timed to show ALL GREEN simultaneously or they can be timed progressively. Specify timing on your order.

No. 47 SAFEWAY Traffic Signal, Post Mounted Type, with Built-In Control, all wired and ready to install **$126.95**

Above price does not include post. Steel post 4½ in. diameter with cast iron base. **17.85**

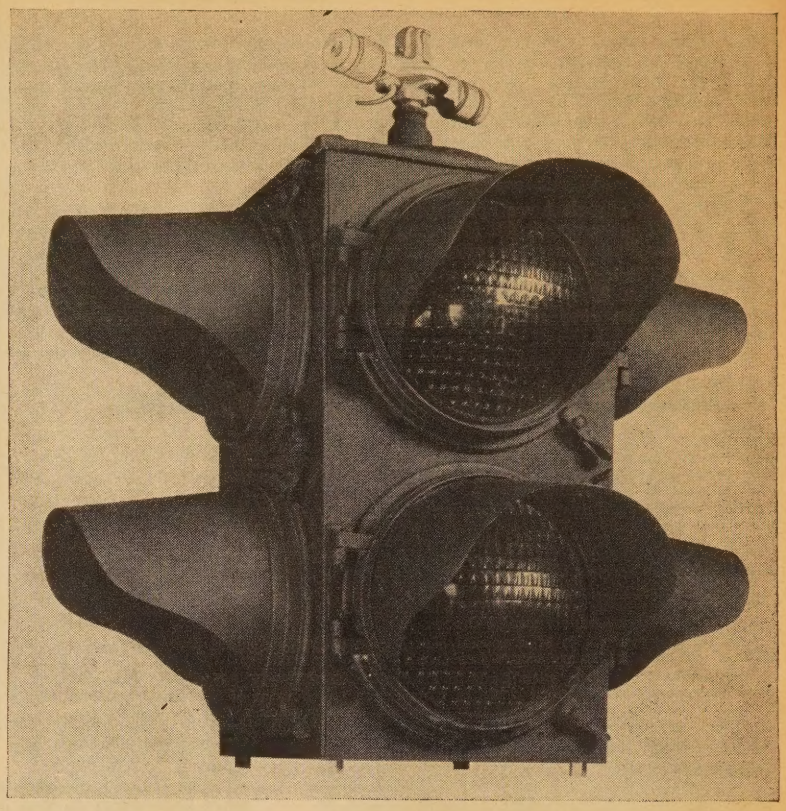
Take Advantage of General's 30-day Free Trial Offer — Pay No Money Until Convinced

America's Most Economical Traffic Signal

$99.95

Complete with Built-In Control

TWO-STAGE SAFEWAY



This compact, economical two-color SAFEWAY solves the traffic problem in a thoroughly satisfactory manner for many cities and villages. It is extremely attractive, low in price, easily installed and never needs attention.

Operation is very smooth and simplicity in itself. The red light overlaps the green for a period of about three seconds. This gives the traffic ample time to change and serves the same purpose as the amber light on a three-color signal. To comply with all State laws and interstate regulations, this signal is made with a SEPARATE LIGHT SOURCE BEHIND EACH LENS.

Each lens also has its polished parabolic reflector, which makes for better lighting and greatest efficiency. Lenses are arranged with four red at the top and four green at the bottom. Bulbs should be at least 40 watt.

Like the three-stage SAFEWAY, these two-color signals have housings of heavy pressed steel, strongly built and expertly designed. Fastening screws are of bronze and rust-proof steel. Servicing is very easily accomplished and bulbs can be replaced without the use of tools.

Completely Automatic—Trouble-Free—Easy to Install

These two-color SAFEWAY Signals are equipped with compact, *completely automatic* built-in controls, installed in the bottom of the signal housing. You don't have to spend your time and money installing curb controls and boxes and stringing wires to get your traffic signal system operating. Just connect two wires to the SAFEWAY and it begins to operate.

You can specify the timing desired on your order. Standard timing is 40 seconds total cycle, with 25 seconds go and 15 seconds stop on the main street and 25 seconds stop and 15 seconds go on the cross street. Normally the red light overlaps the green from 3 to 5 seconds at the change period. However, any standard timing of overlap will be furnished if specified at the time of purchase. Any timing arrangement for the red and green lights can be furnished also, if specified.

All control gears are enclosed and running in an oil bath. Lubrication is required only once a year. Contacts are in dust-proof housings.

SAFEWAY Two-Stage Signals are a good and safe investment for any town. They will control traffic, cut down accidents and make the streets of your community safe for the citizens. YOU CAN'T GO WRONG WITH SAFEWAY!

We invite any city, town or village to try SAFEWAY signals for 30 days at our expense. Just send us your order, subject to our 30-Day Free Trial and Approval terms and we will ship you the signals. If, at the end of the trial period, you feel they are unsatisfactory or are not all we claim, just return the shipment freight collect for full credit. This offer is extended to any municipality and we will make prompt shipment on receipt of a wire or letter from any City Official authorized to make purchases.

No. 45 SAFEWAY Traffic Signal, Two-Stage Suspended Type, with Built-In Control, all wired and ready to hang **$99.95**

Electric Traffic Siren

Very powerful. Operates from any 110-volt line. Easily mounted on poles or lighting standards. If desired, can be wired to fire stations to announce and warn of fire apparatus. Weatherproof and waterproof. Very compact.

$37.50

No. 796 Electric Traffic Siren **$37.50**

A Word to Traffic Signal Buyers

SAFEWAY Signals are built in strict accordance with all State Laws and have a SEPARATE LIGHT SOURCE BEHIND EACH LENS. Do not overlook this fact when comparing SAFEWAY with other signals. It means that, instead of having three bulbs, SAFEWAY has twelve, which actually makes for better lighting and eliminates all phantom lights. Behind each lens also is a polished parabolic reflector specially designed for long years of non-tarnishing traffic signal service.

This construction is recommended and approved by *all Traffic Signal Engineers and recognized bureaus of authority.* It is one of the many factors which combine to make SAFEWAY the finest traffic signal on the market.

GENERAL GIVES YOU

30-Days Free Trial!

5% for Cash or C.O.D.

Free Telegraph Service

Speedy Delivery

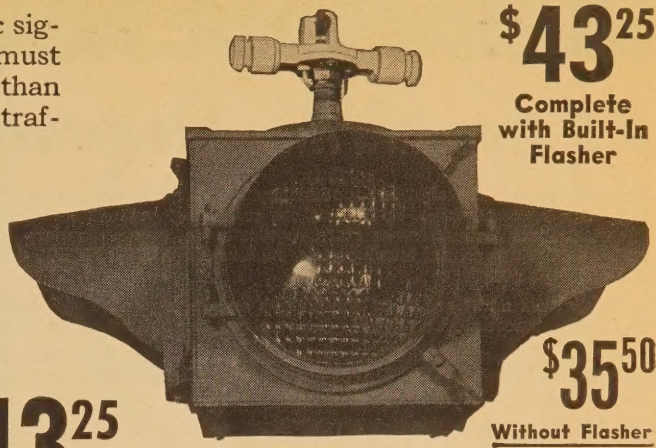
SAFEWAY Flashing STOP and CAUTION Signals

Completely Automatic with Self-Contained Flasher

only **$43.25** Complete with Built-In Flasher

At many intersections a regular two or three-color traffic signal is not necessary, yet some means of regulating traffic must be provided. For these situations there is nothing better than the SAFEWAY Flasher. At dangerous crossings, where traffic is not particularly heavy, this Flasher throws a warning light for a distance of over ½ mile to approaching motorists to slow down or stop.

The SAFEWAY Flasher is built on the same heavy cast aluminum frame as the standard SAFEWAY Signal, using the same optical unit, and has a fool-proof BUILT-IN Flashing Unit mounted in the base of the housing.



No. 26 Flashing Signal with 4 AMBER Lenses
No. 27 Flashing Signal with 2 AMBER and 2 RED Lenses
No. 28 Flashing Signal with 4 RED Lenses
} **$43.25**

No. 29 Same as any of the above only WITHOUT FLASHER, only **$35.50**

$35.50 Without Flasher

Telegraph General City Service Co. any time about anything
This service is free. We pay all charges

SAFEWAY School Traffic Beacon Complete with Built-In Flasher

Designed to warn approaching motorists of a school crossing, this new Warning Beacon has a genuine SAFEWAY Flashing Unit built integral with it which bears all of the standard SAFEWAY features and improvements. The octagonal metal background sign is the large 24x24 in. size recommended by the American Engineering Council and can be furnished with any lettering desired, DEAD END, STOP BOULEVARD, SCHOOL—SLOW, etc. Equipped with a regular 8⅜ in. traffic signal lens which can be seen for great distances. Completely weatherproof and waterproof. Nothing to go wrong or get out of order. This signal COMPELS attention and cannot be overlooked by any motorist. Cut down accidents at hazardous crossings and insure the safety of your school children and pedestrians by installing these very efficient and reliable, yet inexpensive SAFEWAY Beacons. A real bargain and a good investment.

No. 39 SAFEWAY School Traffic Beacon, complete **$46.50**
Steel Post for same, complete with base **15.25**

$46.50 With Any Lettering Desired

24x24 in. Sign
Yellow Background with Black Letters

FIRE ALARM CONTROL FOR SAFEWAY TRAFFIC SIGNALS

It is very desirable that the local Fire Department have some means of turning traffic signals red four ways when the Fire Department demands the right of way. This item can be supplied with any built-in or separate control when specified at the time of purchase. It is only necessary to install two wires from a traffic signal to the fire station, city hall or telephone office, depending on which point you wish the master control.

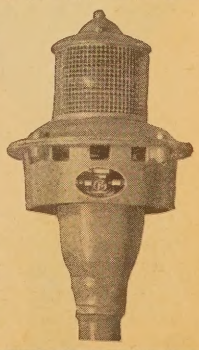
No. 43 Automatic Four-Way All Red Fire Alarm Control **$32.95**

Combination Traffic Signal and Electric Siren

For many years there has existed a pressing need for a VISIBLE and AUDIBLE traffic signal to warn pedestrians and drivers of the approach of oncoming fire apparatus. As a result of constant research in our laboratories and experimentation in the open field, we are proud to announce the perfection of this combination flashing light and siren which will start immediately to clear the streets just as soon as the alarm is received at the central fire station.

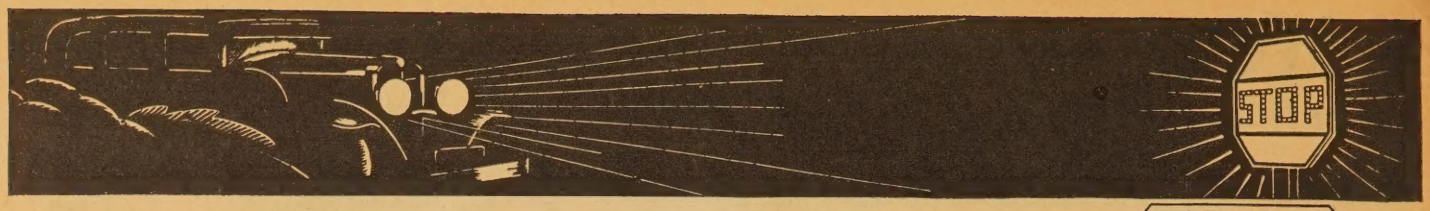
Because it is both SEEN and HEARD, this signal is much more effective than ordinary lights. It is rapidly being adopted by large cities, not only for use at dangerous intersections, but to be mounted out in front of fire stations to clear the way when the trucks are preparing to start a run.

A powerful light in a red fresnel lens operates on and off with the siren. The complete unit is equipped with a connection threaded for 2 in. pipe mounting. Controlled from fire station or from central point at which fire signals are sent out. Finished in brilliant Fire Department red. Dimensions: 17½ in. high, 10½ in. diameter. Made in either 110 or 220 volts, A.C. or D.C. Specify definite voltage when placing your order.



No. 395 Combination Traffic Light and Siren **$75.00**

WE ARE ALWAYS AT YOUR SERVICE—WIRE US COLLECT ANY TIME ABOUT ANYTHING



U. S. Standard Nite-Lite Reflecting Button Signs

Here is the modern sign for modern traffic. There's no guessing. The word STOP looms up 1000 feet ahead—fitted with ⅞-inch white reflecting buttons and equipped with a full back housing. To meet local ordinances or state requirements, any secondary or explanatory wording may be added in the upper and lower panels, such as THRU STREET, CROSS STREET, STREET END, CAR LINE, etc.

The letters and borders of these signs are deeply embossed, heavy steel dies being used to insure the greatest accuracy of detail. Constructed throughout of 16 gauge zinc coated rust-resisting steel.

Yellow background with black letters and border. Size 24 x 24 inches across with 6-inch letters for the word STOP. Prices shown are for signs with WHITE reflector buttons. Red buttons can be supplied for **$1.00** per sign additional.

No. 454 Nite-Lite Reflecting STOP Signs, each **$9.75**

ALUMINITE STREET SIGNS

A new, easy-to-read, economical sign made from a scientifically developed formula of aluminum alloy. Will not rust or corrode—will last indefinitely—will stand many mighty blows without cracking or breaking. The big, bold block letters, finished in black, make Aluminite signs readable from great distances and from almost any angle. Annual repainting or enameling is not necessary—the finish remains bright, fresh and readable for many years. The design is graceful and neat, harmonizes with any background and adds a distinctly modern touch to any street or boulevard.

The above illustration shows our Two-Street type. The street name appears on both sides of the plate. Prices shown below are for a single installation. If you require a number of plates, send us a list of the intersections and we will quote special prices.

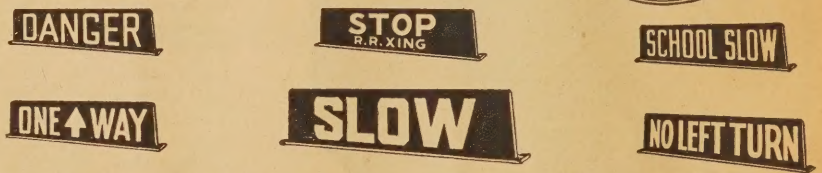
No. 474 Aluminite Street Sign installation, two plates with aluminum bolts and holder with two sets screws, complete **$5.75**

FLEXIBLE RUBBER TRAFFIC GUIDES

A flexible black rubber panel 22 inches long and 7 inches high, standing upright in the pavement. Letters are Federal Yellow, vulcanized into a black rubber background. Cleated wood base with metal anchor plates entirely closed in rust-proof case.

Installation is easy. Merely cut a slot in the pavement, 4 inches wide and 26 inches long. Insert the marker in this slot and pour concrete around it which, when set, will hold the sign in place.

To replace, simply unscrew the nut at the end of the marker and remove the small top plate. Then lift out the marker. In ordering replacement markers, send for "refills" only. They are easily placed in the permanent base.

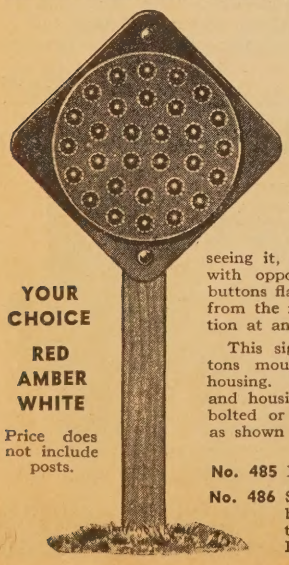


No. 476 STOP or SLOW Signs (Single Face) each.... **$6.75**
Rubber Refills **$5.85** each

No. 477 SCHOOL—SLOW, DANGER or ONE WAY Signs (Single Face) each **7.85**
Rubber Refills **$6.95** each

No. 478 NO CENTER PARKING, KEEP RIGHT, NO U TURN or NO LEFT TURN Signs (Double Face) each **$8.85**
Rubber Refills **$7.95** each

REFLECTING BEACON



YOUR CHOICE

RED
AMBER
WHITE

Price does not include posts.

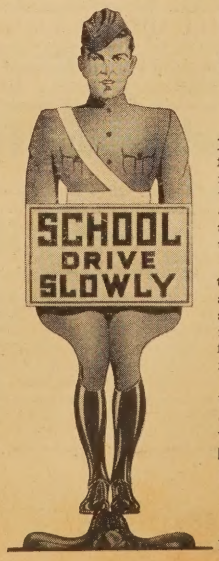
Here is a new reflecting danger signal to make your highways safer. This sign borrows light from the approaching automobile headlights and is visible for 1000 feet or more. The brilliant visibility gives full warning. No driver can miss seeing it, even when meeting another car with opposing headlights. The reflector buttons flash their warning at wide angles from the road. (Tests have shown reflection at an angle as great as 50°.)

This sign consists of 30 reflector buttons mounted in an 8½-inch diameter housing. Base 8½ inches square. Base and housing painted red. Can easily be bolted or screwed to wood or steel post as shown in illustration.

No. 485 Reflecting Beacon ... **$6.55**

No. 486 Same with 18 x 18-inch backplate bearing any lettering desired, STREET END, DEAD END, etc... **8.55**

Protect Your School Children With This Safety Sentinel



Here is a distinctive and dignified figure designed to attract the immediate attention of both the motoring public and the school children, instantly calling to mind the necessity of special caution in the vicinity of a school.

Easily moved to the center of the street when the children are arriving at school in the morning, at noon and when they are leaving at night. Can be removed from the danger zone when not needed.

Red uniform, yellow sign, white belt, black puttees. Baked enamel of lasting lustre and brilliance, will stand severe weathering.

No. 493 Safety Sentinel.... **$ 9.85**

No. 494 Same, but double faced, two figures back to back..... **16.25**

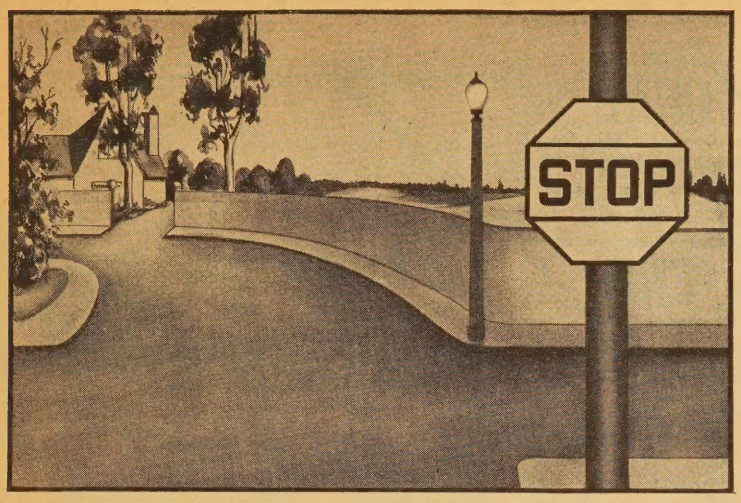
Special lettering in place of the lettering shown, $1.50 extra.

Made of 18 gauge steel in 18 x 24-inch size. Yellow background with black letters and border and running boy figure. One of the finest school slow signs.

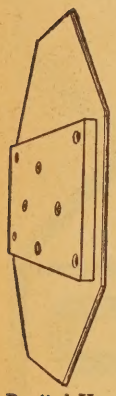
No. 499 Sign **$1.90**

All Sign Prices Less 10% for Lots of One Dozen or More

Standard Stop Signs Plain and Reflecting

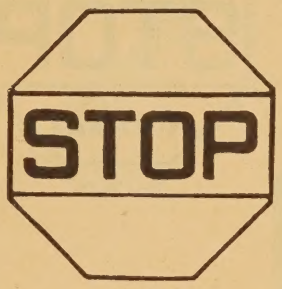


No. BW3P

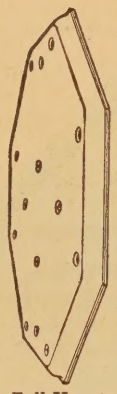


Partial Housing

No. BCV11



No. W3



Full Housing

No. BCV11N

No. CV43

No. CV10

No. W3D

No. CV43A

The Standard stop sign, plain or reflectionized, follows a definite detailed design and various combinations.

Secondary or Explanatory wording in upper and lower spaces to meet local ordinances or state requirements may be added, such as:

Thru Highway	Through Street	State Law	Through Traffic
State Highway	School Zone	Boulevard	Arterial Highway
School Crossing	Trunk Highway	Rail Road	Railroad Crossing
County Highway	Danger Corner	Thru Street	County Road

Nos. W3, W3D—Size, 24x24 inches, 16 gauge. Yellow Background, Black Letters, Border and Cross Bars.

Regular Steel. Each **$2.00**
Zinc Coated Steel. Each **2.50**
Galvanized Bonderized Steel. Each **2.50**
Reflecting signs made of zinc coated or galvanized bonderized steel.

Nos. CV43, CV10, CV43A—Size, 18x18 inches, 18 gauge. Yellow Background.

Nos. CV43, C43A—Black Letters, Border and Cross Bars.

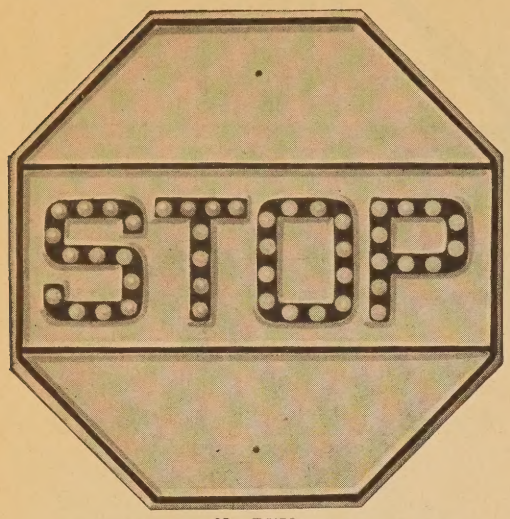
No. CV10—Red Letters and Border.
Regular Steel. Each **$1.75**
Zinc Coated Steel. Each **2.00**
Galvanized Bonderized Steel. Each **2.00**

Nos. BCV11, BCV11N—Size, 18x18 inches, 18 gauge. Yellow Background, Black Letters, Border and Cross Bars. Furnished with Crystal Buttons.
No. BCV11—Small Back Box. Each **$8.50**
No. BCV11N—Full Back Box. Each **9.00**

No. BW3P—Size, 24x24 inches, 16 gauge. Yellow Background, Black Letters, Border and Cross Bars. Furnished with Crystal Buttons.
Small Back Box. Each ..... **$ 9.50**
Full Back Box. Each **10.00**

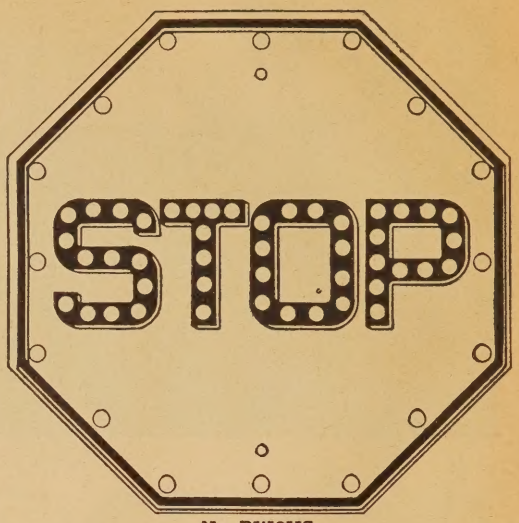
If you don't see what you want, Write us.—We have it

Standard Stop Sign Plain and Reflecting



No. BW3

No. W3F

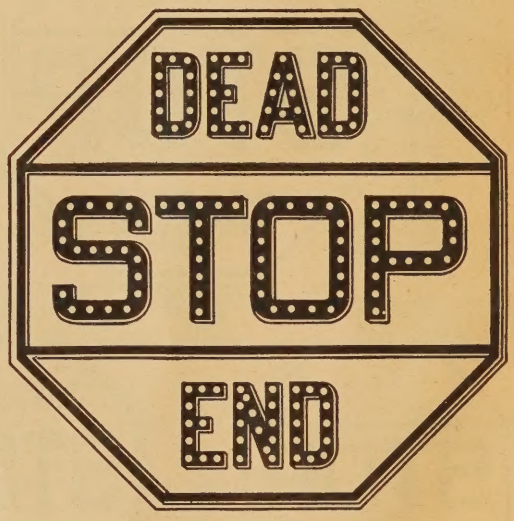


No. BW3US

No. W3B

No. BCV 10

No. W3C



No. BW3NY

Nos. W3F, W3B, W3C—Size, 24x24 inches, 16 gauge. Yellow Background, Black Letters, Border and Cross Bars.

Regular Steel. Each	**$2.00**
Zinc Coated Steel. Each	**2.50**
Galvanized Bonderized Steel. Each	**2.50**

No. BCV10—Size, 18x18 inches, 18 gauge. Yellow Background, Black Letters, Border and Cross Bars. Furnished with Crystal Buttons.

Small Back Box. Each	**$8.50**
Full Back Box. Each	**9.00**

No. BW3—Size, 24x24 inches, 16 gauge. Yellow Background, Black Letters, Border and Cross Bars. Furnished with Crystal Buttons.

Small Back Box. Each	**$ 9.50**
Full Back Box. Each	**10.00**

No. BW3NY—Size, 24x24 inches, 16 gauge. Yellow Background, Black Letters, Border and Cross Bars. Furnished with Crystal Buttons.
Full Back Box. Each **$17.50**

No. BW3US—Size, 24x24 inches, 16 gauge. Yellow Background, Black Letters and Border. Furnished with Red Buttons in "Stop" and Crystal Buttons inside of border line.
Full Back Box. Each **$13.00**

Any of the above signs can be furnished with secondary wording in upper and lower spaces to meet your requirements. Reflecting signs made of zinc coated or galvanized bonderized steel.

Our signs are finished in high quality baking enamels. Ordinary enamels are not satisfactory for road signs. Extensive experience has produced enamels and applications that insure long life under exacting conditions.

Stop and Stop Sign Ahead Signs

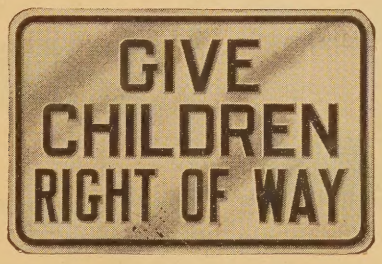
Plain and Reflecting

No. W30-30"x30" No. W36-36"x36"

No. BC17N

Something new in a large Stop Sign

No. C17N



No. CV155

No. SZ3

No. AL7

Nos. W30 and W36—Size, 30x30 and 36x36 inches. 16 gauge. Yellow Background, Black Letters and Border. 30 inch sign 8 inch letters, 36 inch sign 10 inch letters.

	30"x30"	36"x36"
Regular Steel. Each	$3.50	$5.50
Zinc Coated Steel. Each	4.25	6.50
Galvanized Bonderized Steel. Each	4.25	6.50

No. C17N—Size, 24x24 inches, 16 gauge. Yellow Background, Black Letters and Border.

Regular Steel. Each	$2.00
Zinc Coated Steel. Each	2.50
Galvanized Bonderized Steel. Each	2.50

No. CV155—Size, 14x21 inches, 18 gauge. White Background, Black Letters and Border.

Regular Steel. Each	$2.25
Zinc Coated Steel. Each	2.75
Galvanized Bonderized Steel. Each	2.75

No. BC17N—Size, 24x24 inches, 16 Gauge. Yellow Background, Black Letters and Border. Furnished with Crystal Buttons.
Full Back Box. Each **$7.50**

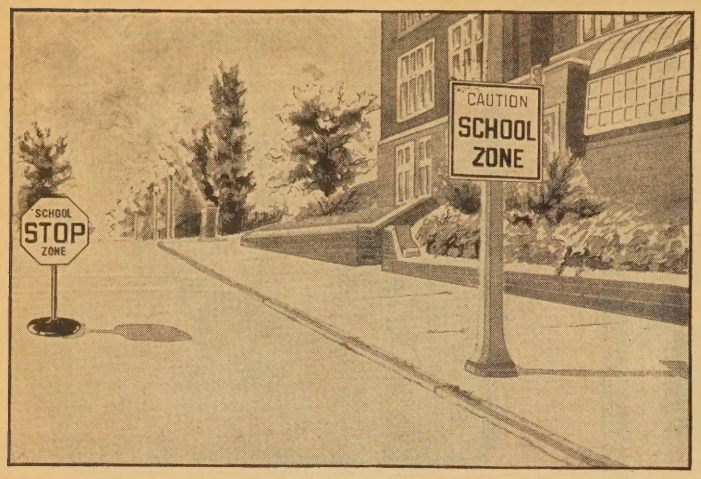
No. SZ3—Size of sign, 18x18 inches, 18 Gauge. Yellow Background, Black Letters and Border. Furnished with a 1¾-inch standard 40 inches long and a 19 pound base, 15 inches in diameter.
Complete. Each **$7.50**

No. AL7—Portable School Stop Sign for protection of school children, can be easily rolled to the center of the street. Height 6 feet, weight 39 pounds. Stop sign 18x18 inches, Right of Way sign 14x21 inches, with 19 pound base.
Each **$12.00**

Reflecting signs made of zinc coated or galvanized bonderized steel.

If you don't see what you want—Write us—We have it

Standard School Signs



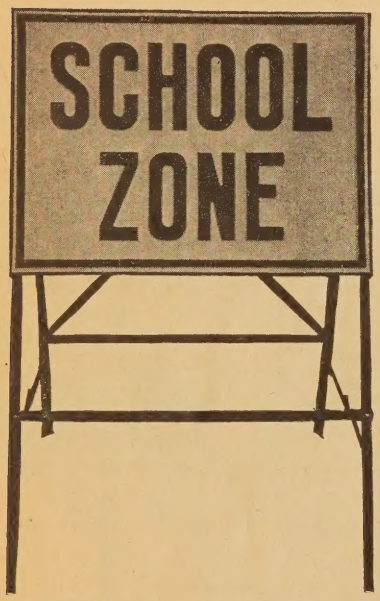
(PLAIN)

No. C10

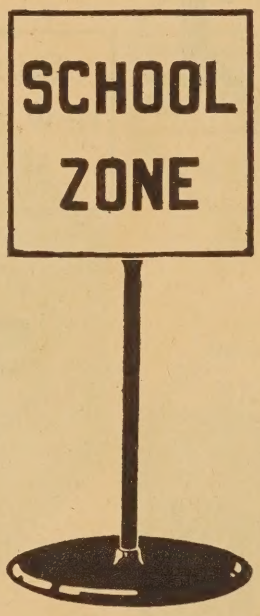
No. CV16

No. CV55

No. W26P



No. EC15



No. SC15

No. W8P

No. SP3

The type of school traffic organization which most interests the traffic official is one where a small group of students handle the problem of providing safe passage across main-traveled arteries for the others. By using hand stop signs, also portable signs. "P" after number denotes Penn. Standard Sign.

Nos. C10, W26P, W8P—Size, 24x24 inches, 16 gauge. Yellow Background, Black Letters and Border.

Regular Steel. Each	**$2.00**
Zinc Coated Steel. Each	**2.50**
Galvanized Bonderized Steel. Each	**2.50**

No. CV16—Size, 18x18 inches, 18 gauge. Yellow Background, Black Letters and Border.

Regular Steel. Each	**$1.75**
Zinc Coated Steel. Each	**2.00**
Galvanized Bonderized Steel. Each	**2.00**

No. CV55—Size, 18x24 inches, 18 gauge. Yellow Background, Black Letters, Design and Border.

Regular Steel. Each	**$1.90**
Zinc Coated Steel. Each	**2.30**
Galvanized Bonderized Steel. Each	**2.30**

No. EC15—Size of sign, 18x24 inches, 18 gauge. Yellow Background, Black Letters and Border. Height of sign with Easel, 39½ inches.

With Easel. Each	**$7.50**
Easel Only. Each	**4.50**

No. SC15—Size of sign, 24x24 inches, 16 gauge. Yellow Background, Black Letters and Border. Height of sign with standard and base, 50 inches. No. 3 base, 19 inches in diameter, 36 pounds.

With Standard and Base. Each	**$11.00**
Standard and Base Only. Each	**9.00**

No. SP3—Size of sign, 12x12 inches, 18 gauge. Yellow Background, Black Letters, Border and Cross Bars. Handle, 5¼ inches long.

Each	**$2.50**

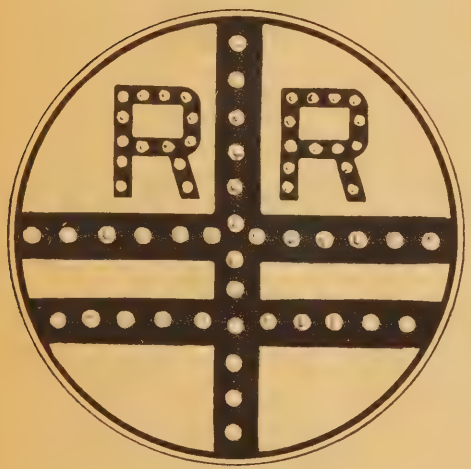
All Sign Prices Less 10% for Lots of One Dozen or More

Standard Railroad Signs

Plain and Reflecting

No. W1

No. W1US



No. BW2

No. BW1US

No. W2

The Standard Advance Warning Signs should always be illuminated with white reflector buttons in letters R and a row of buttons just inside of border. Full rear seamless housing for reflector sign. Is also furnished plain embossed. The Symbol may also be reflectorized in the 30-inch diameter signs.

Nos. W1, W2—Size, 24 inches in diameter, 16 gauge. Yellow Background, Black Letters, Border and Cross Bars.
No. W1—For Single Track.
No. W2—For Two or More Tracks.

Regular Steel. Each	**$2.00**
Zinc Coated Steel. Each	**2.50**
Galvanized Bonderized Steel. Each	**2.50**

No. W1US—Size, 30 inches in diameter, 16 gauge. Yellow Background. Black Letters, Border and Cross Bars. Furnished with a 5/8 or 1-inch border.

Regular Steel. Each	**$3.50**
Zinc Coated Steel. Each	**4.25**
Galvanized Bonderized Steel. Each	**4.25**

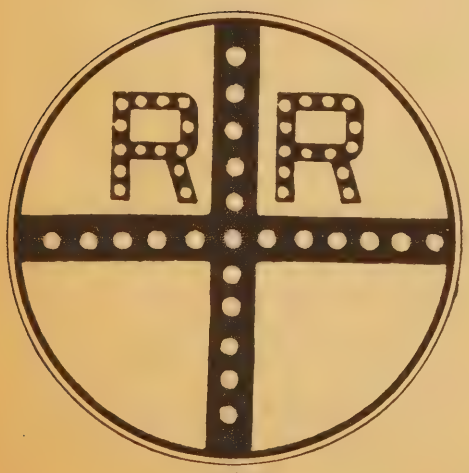
Nos. BW1, BW2—Size, 24 inches in diameter, 16 gauge. Yellow Background. Black Letters, Border and Cross Bars.
No. BW1—For Single Track.
No. BW2—For Two or More Tracks.
Furnished with Crystal Buttons.

No. BW1—Full Box. Each	**$11.25**
No. BW2—Full Box. Each	**12.50**

No. BW1US—Size, 30 inches in diameter. 16 gauge. Yellow Background. Black Letters. Border and Cross Bars. Furnished with Crystal Buttons.

Full Back Box. Each	**$12.25**

Furnished with a 5/8 or 1-inch border.

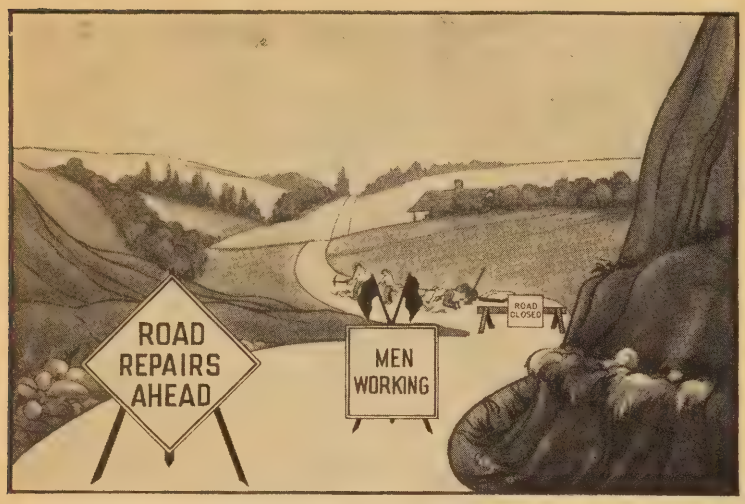


No. BW1

All Sign Prices Less 10% for Lots of One Dozen or More

Standard Road Construction Signs

Plain and Reflecting



No. C22

No. BC17

No. C17

No. C18

No. M26T

No. M20

No. C29

Nos. C17, C22, C18, C29—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters, Figures and Border.

Regular Steel. Each	**$2.00**
Zinc Coated Steel. Each	**2.50**
Galvanized Bonderized Steel. Each	**2.50**

No. BC17—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters, Figures and Border. Furnished with Crystal Buttons in word "DETOUR."

Full Back Box. Each	**$12.00**

No. M26T—Size, 8½x17 inches, 18 gauge. White Background. Black Letters and Border.

Regular Steel. Each	**$1.00**
Zinc Coated Steel. Each	**1.15**
Galvanized Bonderized Steel. Each	**1.15**

No. M20—Size, 8x20 inches, 18 gauge. White Background. Black Letters and Border.

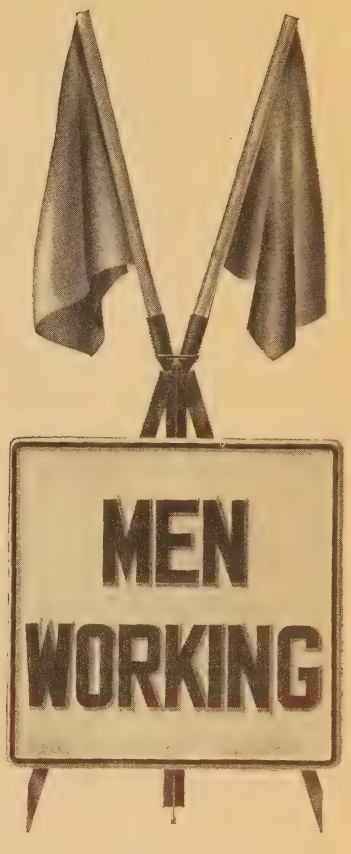
Regular Steel. Each	**$1.35**
Zinc Coated Steel. Each	**1.50**
Galvanized Bonderized Steel. Each	**1.50**

Reflecting signs made of zinc coated or galvanized bonderized steel.

Standard Road Construction Signs and Easels Plain and Reflecting

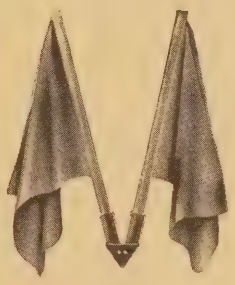
No. EC20A

No. EC20



No. EC20B

No. BC26



No. EC20C

No. C26N

No. C26

Permanent and Portable Signs are necessary where roads are under construction, repair or in bad condition.

No. EC20—Easel painted black and has two small rods to hold easel in place instead of chains as illustrated. Side lags made of ¾-inch angle iron, back center leg made of 1-inch "T" iron. Punched with 4 holes for attaching sign. The easel can be folded up into a compact unit.

For 24-in. Signs (33 inches high). Each **$5.00**
For 18-inch signs (28 inches high). Each **4.50**

No. EC20A—Easel, same as No. EC20, except complete with sign.

Easel with 24-inch Sign. Each **$7.00**
Easel with 18-inch Sign. Each **6.25**

No. EC20B—Easel, same as No. EC20, except complete with sign, bracket and 2 flags.

Easel with 24-inch Sign. Each **$8.50**
Easel with 18-inch Sign. Each **7.75**

No. EC20C—Flag Bracket and 2 Red Flags, which can be attached to Easel No. EC20.
Each **$1.50**

Nos. C26, C26N—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters and Border. Regular Steel. Each **$2.00**
Zinc Coated Steel. Each **2.50**
Galvanized Bonderized Steel. Each **2.50**

No. BC26—Size, 24x24 inches. 16 gauge. Yellow Background. Black Letters and Border. Furnished with Crystal Buttons.

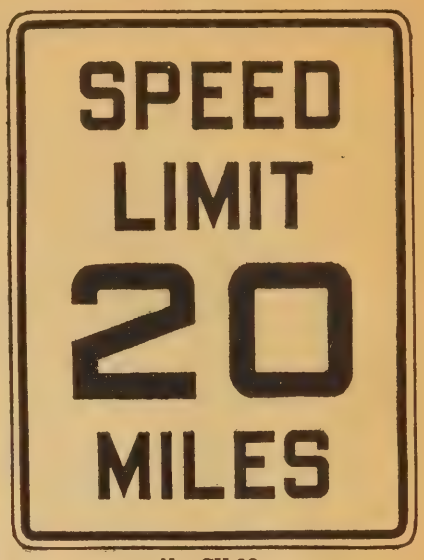
Full Back Box. Each **$16.00**

Reflecting signs made of zinc coated or galvanized bonderized steel.

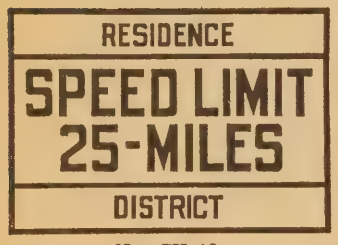
Standard Speed Limit Signs

Plain and Reflecting

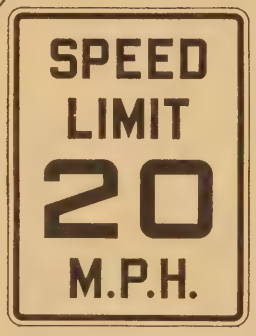
No. BCV 32



No. CV 32



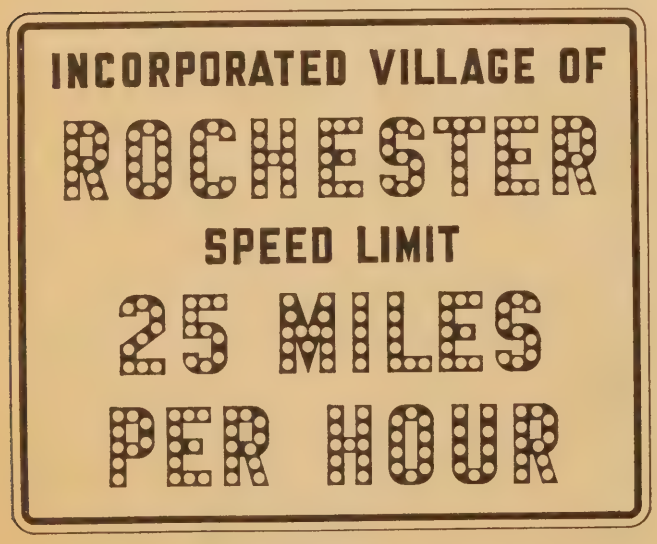
No. CV 40



No. CV 132

No. R 6 P

No. RS 11



No. B 25 NY

No. B25NY—Size, 28x42 inches, 16 gauge. White Background. Black Letters, Figures and Border. Furnished with Crystal Buttons in the Village Name, in the Speed and in the words "Miles per Hour." Made with any Speed.

Full Back Box. Each.....$46.00

Reflecting signs made of zinc coated or galvanized bonderized steel.

At selected points within speed zones confirmatory "Speed Limit — Miles" should be erected, and at exit from this speed zone a sign, "End — Miles Speed." All designs are made in 16 gauge steel with Embossed letters, figures and border. Can be made with any speed.

Nos. CV32, CV132, R6P—Size, 18x24 inches, 18 gauge. White Background. Black Letters, Figures and Border.

Regular Steel. Each..... $2.25
Zinc Coated Steel. Each..... 2.65
Galvanized Bonderized Steel. Each..... 2.65

No. R4—Same as No. CV32, except 20x30 inches, 16 gauge.

Regular Steel. Each..... $2.50
Zinc Coated Steel. Each..... 3.00
Galvanized Bonderized Steel. Each..... 3.00

No. BCV32—Size, 18x24 inches, 18 gauge. White Background. Black Letters, Figures and Border. Furnished with Crystal Buttons in Figures.

Small Back Box. Each..... $7.50
Full Back Box. Each..... 8.00

No. BR4—Same as No. BCV32, except size, 20x30 inches. 16 gauge.

Small Back Box. Each..... $8.00
Full Back Box. Each..... 8.50

No. CV40—Size, 20x28 inches, 16 gauge. White Background. Black Letters, Figures and Border.

Regular Steel. Each..... $2.50
Zinc Coated Steel. Each..... 2.75
Galvanized Bonderized Steel. Each..... 2.75

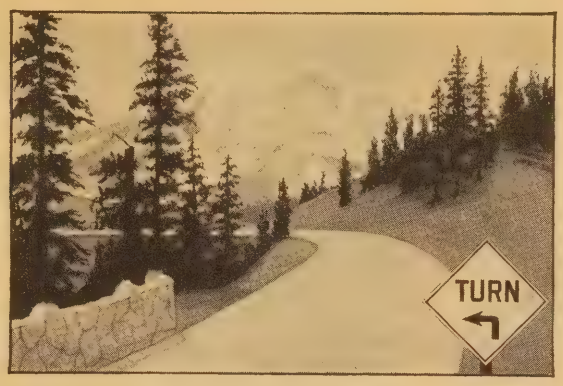
No. RS11—Size, 15x24 inches, 16 gauge. White Background. Black Letters and Border.

Regular Steel. Each..... $1.90
Zinc Coated Steel. Each..... 2.30
Galvanized Bonderized Steel. Each..... 2.30

Standard Curve and Turn Signs

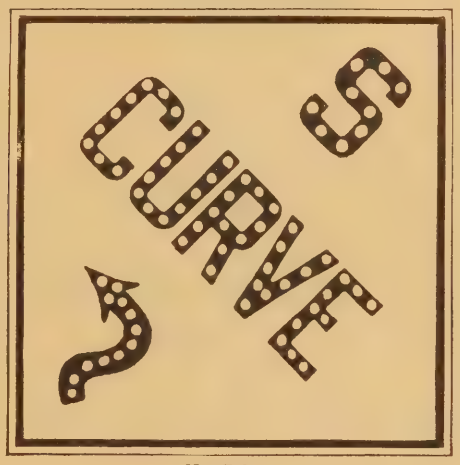
Plain and Reflecting

No. C3



No. C6

No. C4



No. BC4

No. C6S

No. CV38

Nos. C3, C4, C6, C6S—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters, Arrows and Border.

Regular Steel. Each	**$2.00**
Zinc Coated Steel. Each	**2.50**
Galvanized Bonderized Steel. Each	**2.50**

Nos. CV38, CV14, CV34, CV15—Size, 18x18 inches, 16 gauge. Yellow Background. Black Letters, Arrows and Border.

Regular Steel. Each	**$1.75**
Zinc Coated Steel. Each	**2.00**
Galvanized Bonderized Steel. Each	**2.00**

No. BC4—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters, Arrow and Border. Furnished with Crystal Buttons.

Full Back Box. Each	**$13.00**

Reflecting signs made of zinc coated or galvanized bonderized steel.

No. CV34

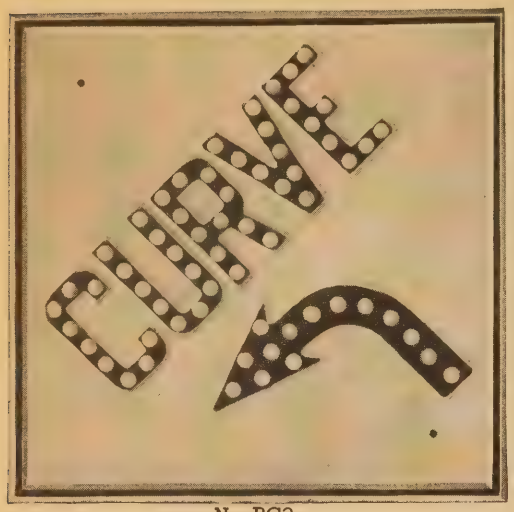
No. CV14

No. CV15

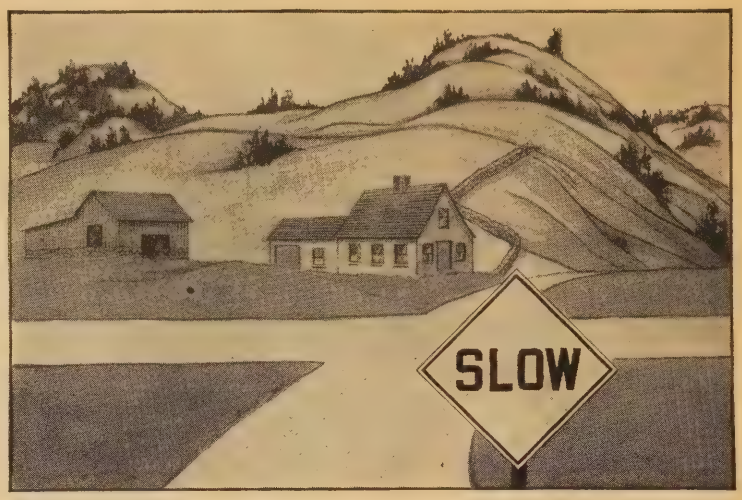
For Quality, Service and Dependability, Order from General City Service Co.

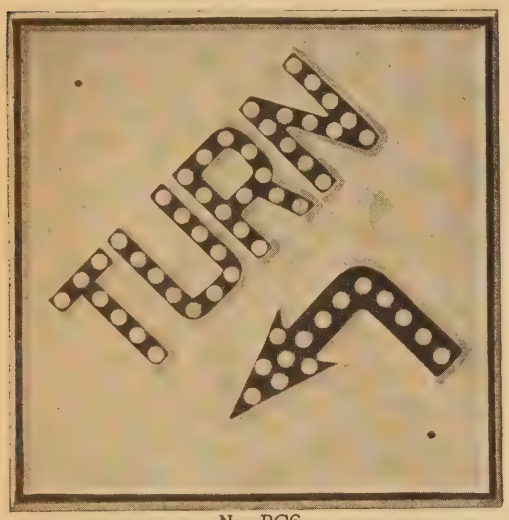
Standard Curve, Turn and Slow Signs

Plain and Reflecting



No. BC3

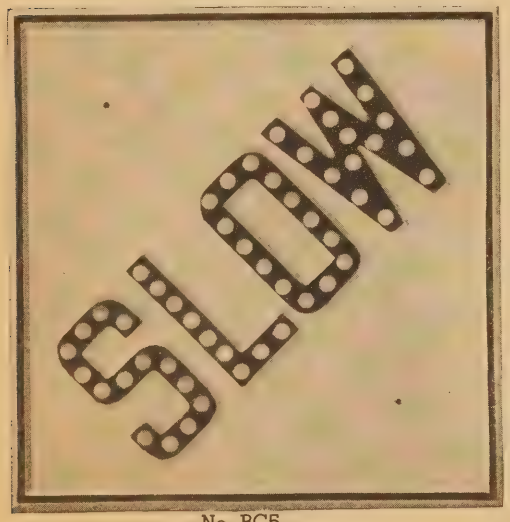




No. BC6

No. C31

No. C5



No. BC5

No. BC3—Size, 24x24 inches, 16 gauge; Yellow Background. Black Letters, Arrow and Border. Furnished with Crystal Buttons.

Full Back Box. Each..... **$12.50**

No. BC6—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters, Arrow and Border. Furnished with Crystal Buttons.

Full Back Box. Each..... **$11.50**

No. BC5—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters and Border. Furnished with Crystal Buttons.

Full Back Box. Each..... **$10.75**

Nos. C31, C5—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters and Border.

Regular Steel. Each..... **$2.00**
Zinc Coated Steel. Each..... **2.50**
Galvanized Bonderized Steel. Each..... **2.50**

Reflecting signs made of zinc coated or galvanized bonderized steel.

Standard Symbol Curve and Turn Signs

Plain and Reflecting

No. BC6N

No. C3N

No. C6N

No. BC3N

No. C5N

No. C7N

No. BC5N

The Symbol Signs are now being usedin a number of the States to give direction of Turn or Curve in the highway.

These signs can be furnished with reflector buttons in Symbol only, or in Border only. Write for prices.

Nos. BC6N, BC3N—Size, 24x24 inches, 16 gauge. Yellow Background. Black Symbol and Border. Furnished with Crystal Buttons and Full Back Box.

Buttons in Symbol only. Each..... **$ 8.00**
Buttons in Symbol and inside of the Border. Each..... **10.00**

No. BC5N—Size, 24x24 inches, 16 gauge. Yellow Background. Black Symbol and Border. Furnished with Crystal Buttons and Full Back Box.

Buttons in Symbol only. Each..... **$ 8.00**
Buttons in Symbol and inside of the Border. Each..... **10.00**

Nos. C3N, C6N, C5N, C7N—Size, 24x24 inches, 16 gauge. Yellow Background. Black Symbol and Border.

Regular Steel. Each..... **$2.00**
Zinc Coated Steel. Each..... **2.50**
Galvanized Bonderized Steel. Each..... **2.50**

Reflecting signs made of zinc coated or galvanized bonderized steel.

Standard Cross and Side Road Signs

Plain and Reflecting

No. CV33

No. C15

No. C16

No. CV12

No. A97

No. C34N

No. BC16

Nos. C16, A97, C15, C34N—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters and Border.

Regular Steel. Each	**$2.00**
Zinc Coated Steel. Each	**2.50**
Galvanized Bonderized Steel. Each	**2.50**

Nos. CV33, CV12—Size, 18x18 inches, 18 gauge. Yellow Background. Black Letters and Border.

Regular Steel. Each	**$1.75**
Zinc Coated Steel. Each	**2.00**
Galvanized Bonderized Steel. Each	**2.00**

Nos. BC16, BC15—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters and Border. Furnished with Crystal Buttons.

No. BC16—Full Back Box. Each	**$12.00**
No. BC15—Full Back Box. Each	**13.50**

Reflecting signs made of zinc coated or galvanized bonderized steel.

No. BC15

Standard Hill and Viaduct Signs

Plain and Reflecting

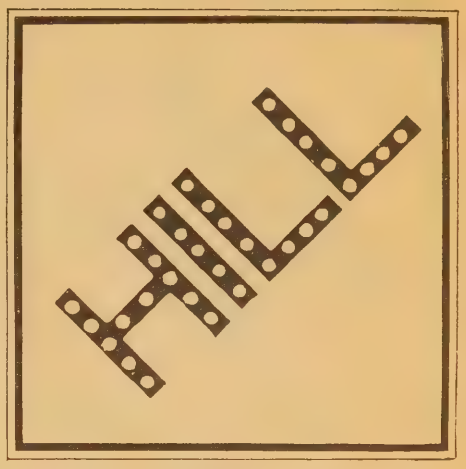
No. CV13

No. C23N

No. C2

No. C32

No. BC23N



No. BC1

No. C1

No. W37P

No. CV13—Size, 18x18 inches, 18 gauge. Yellow Background. Black Letters and Border.

Regular Steel. Each	**$1.75**
Zinc Coated Steel. Each	**2.00**
Galvanized Bonderized Steel. Each	**2.00**

Nos. C23N, C2, C32, C1—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters and Border.

Regular Steel. Each	**$2.00**
Zinc Coated Steel. Each	**2.50**
Galvanized Bonderized Steel. Each	**2.50**

No. BC23N, BC1, W37P—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters and Border. Furnished with Crystal Buttons and Full Back Box.

Nos. BC23N, W37P—Each	**$ 7.50**
No. BC1—Each	**10.75**

Reflecting signs made of Zinc Coated or galvanized bonderized steel.

All Sign Prices Less 10% for Lots of One Dozen or More

Standard Narrow Road and Bridge Signs

Plain and Reflecting

No. W17P

No. C13N

No. C11

No. BC11

No. C30

No. C12

No. CD56

No. BC13N

No. CD56—Size, 7x25 inches, 18 gauge. Red Background, Black Letters and Border. Arrow can be made to point right or left.

Regular Steel. Each	**$1.85**
Zinc Coated Steel. Each	**1.95**
Galvanized Bonderized Steel. Each	**1.95**

Nos. C13N, C30, C12—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters and Border.

Regular Steel. Each	**$2.00**
Zinc Coated Steel. Each	**2.50**
Galvanized Bonderized Steel. Each	**2.50**

Nos. BC11, W17P, BC13N—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters and Border. Furnished with Crystal Buttons and Full Back Box.

No. W17P, BC13N—Each	**$7.50**
No. BC11—Each	**18.00**
No. BC11—Buttons in the border only. Each	**7.50**

Reflecting signs made of zinc coated or galvanized bonderized steel.

If You don't See what you want, Write us—We have it

Standard Caution Signs

Plain and Reflecting

No. C13

No. C14

No. C19

No. C23

No. W19P

No. C24

No. C8

No. C20

No. C21

Nos. C13, C14, C19, C23, C24, C8, C20, C21—Size, 24x24 inches. 16 gauge, Yellow Background. Black Letters, Figures and Border.

Regular Steel. Each	**$2.00**
Zinc Coated Steel. Each	**2.50**
Galvanized Bonderized Steel. Each	**2.50**

No. W19P—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters and Border. Furnished with Crystal Buttons.

Full Back Box. Each	**$7.50**

Reflecting signs made of zinc coated or galvanized bonderized steel.

Send Cash With Order or Specify C.O.D. For Our Big 5% Cash Discount

Standard Street Car Signs

Plain and Reflecting

No. CV11

No. 46S

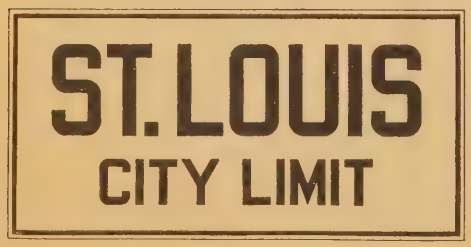
No. 20S

No. BC24N

No. C24N

No. W7P

No. D12



No. D11

No. CV11—Size, 18x18 inches, 18 gauge. Yellow Background. Black Letters, Arrow and Border.

Regular Steel. Each	**$1.75**
Zinc Coated Steel. Each	**2.00**
Galvanized Bonderized Steel. Each	**2.00**

No. C24N—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters and Border.

Regular Steel. Each	**$2.00**
Zinc Coated Steel. Each	**2.50**
Galvanized Bonderized Steel. Each	**2.50**

Nos. D11, D12—Size, 18x36 inches, 16 gauge. White Background. Black Letters and Border. Furnished with any City or Village Name.

Regular Steel. Each	**$5.50**
Zinc Coated Steel. Each	**6.00**
Galvanized Bonderized Steel. Each	**6.00**

No. 46S—Size, 6x24 inches, 18 gauge. White Background. Black Letters and Border.

Regular Steel. Each	**$2.50**
Zinc Coated Steel. Each	**2.75**
Galvanized Bonderized Steel. Each	**2.75**

No. 20S—Size, 12x18 inches, 18 gauge. White Background. Black Letters and Border. Furnished to read "CAR" or "BUS" Stop.

Regular Steel. Each	**$4.50**
Zinc Coated Steel. Each	**4.65**
Galvanized Bonderized Steel. Each	**4.65**

Nos. BC24N, W7P—Size, 24x24 inches, 18 gauge. Yellow Background. Black Letters, Arrow and Border. Furnished with Crystal Buttons.

Full Back Box. Each	**$7.50**

Reflecting Signs made of zinc coated or galvanized bonderized steel.

For The Best At The Lowest Prices, Order From General City Service Co.

Standard Church and Hospital Zone Signs

Plain and Reflecting

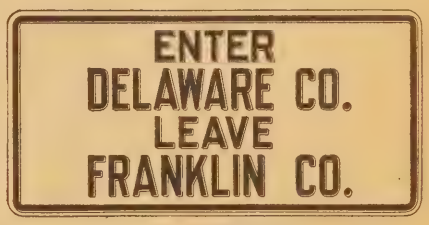
No. C28

No. C27

No. C9N

No. C9

No. CV36



No. 150S

Hospital Signs help materially in reducing unnecessary noises around hospitals.

Nos. C9N, C9, C27, C28—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters and Border.

Regular Steel. Each	**$2.00**
Zinc Coated Steel. Each	**2.50**
Galvanized or Bonderized Steel. Each	**2.50**

No. CV36—Size 18x18 inches, 18 gauge. Yellow Background. Black Letters and Border.

Regular Steel. Each	**$1.75**
Zinc Coated Steel. Each	**2.00**
Galvanized Bonderized Steel. Each	**2.00**

No. 150S—Size, 20x40 inches, 16 gauge. White Background. Black Letters and Border. Furnished with any County Names.

Regular Steel. Each	**$8.50**
Zinc Coated Steel. Each	**9.50**
Galvanized Bonderized Steel. Each	**9.50**

No. W42P—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters and Border. Furnished with Crystal Buttons.

Full Back Box. Each	**$7.50**

Reflecting signs made of zinc coated or galvanized bonderized steel.

No. W42P

All Sign Prices Less 10% for Lots of One Dozen or More

Standard Restriction Signs

Plain and Reflecting

No. R36P

No. CV18

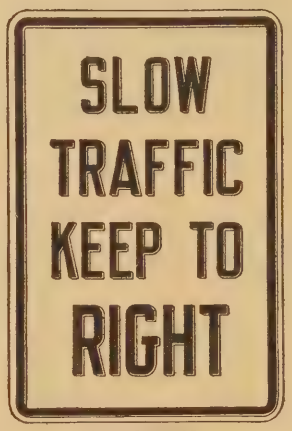
No. CV21

No. 22S

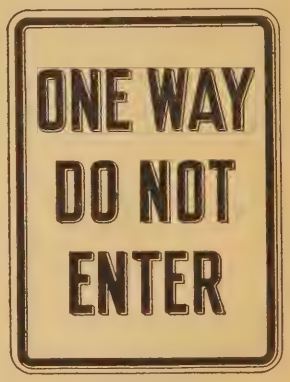
No.35S

No. R45P

No. CV25

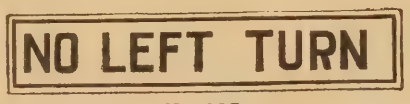


No. CV60N



No. CV53

No. 34S



No. 30S

No. 31S

No. 40S

Nos. CV18, CV21, CV25, CV53—Size, 12x18 inches, 18 gauge. White Background. Black Letters and Border.

Regular Steel. Each	**$1.60**
Zinc Coated Steel. Each	**1.75**
Galvanized Bonderized Steel. Each	**1.75**

Nos. R45P, CV60N—Size, 18x24 inches, 18 gauge. White Background. Black Letters and Border.

Regular Steel. Each	**$3.10**
Zinc Coated Steel. Each	**3.50**
Galvanized Bonderized Steel. Each	**3.50**

Nos. 34S, 22S, 35S—Size, 12x12 inches, 18 gauge. White Background. Black Letters and Border.

Regular Steel. Each	**$2.25**
Zinc Coated Steel. Each	**2.35**
Galvanized Bonderized Steel. Each	**2.35**

Nos. 30S, 31S—Size, 6x24 inches, 18 gauge. White Background. Black Letters and Border.

Regular Steel. Each	**$2.25**
Zinc Coated Steel. Each	**2.50**
Galvanized Bonderized Steel. Each	**2.50**

No. R36P—Size, 24x24 inches, 16 gauge. White Background. Black Letters, Arrow and Border. Furnished with Crystal Buttons.

Full Back Box. Each	**$19.00**

No. 40S—Size, 12x12 inches, 18 gauge. White Background. Black Letters and Border.

Regular Steel. Each	**$2.25**
Zinc Coated Steel. Each	**2.35**
Galvanized Bonderized Steel. Each	**2.35**

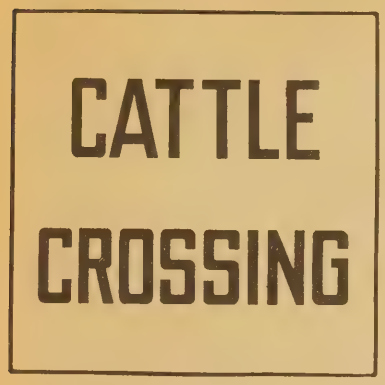
"P" after number donates Pennsylvania Standard Sign.

Reflecting Signs made of zinc coated or galvanized bonderized steel

For The Best At The Lowest Prices, Order From General City Service Co.

Standard Warning and Caution Signs

PLAIN



No. C24A

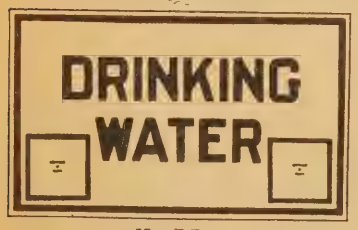
No. R2

No. R5

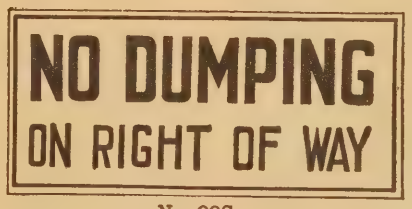
No. D10

No. D13

No. 26NY



No. D5



No. 29S

No. 152S

Nos. R2, R5, D10, D13—Size, 24x24 inches, 16 gauge. White Background. Black Letters, Arrow and Border. Arrow on D10 can be made to point right or left.

Regular Steel. Each	**$2.00**
Zinc Coated Steel. Each	**2.50**
Galvanized Bonderized Steel. Each	**2.50**

No. C24A—Size, 24x24 inches, 16 gauge. Yellow Background. Black Letters and Border.

Regular Steel. Each	**$2.00**
Zinc Coated Steel. Each	**2.50**
Galvanized Bonderized Steel. Each	**2.50**

No. 26NY—Size, 28x42 inches, 16 gauge White Background. Black Letters, Arrow, Figures and Border. Arrow can be made to point right or left.

Regular Steel. Each	**$19.50**
Zinc Coated Steel. Each	**21.50**
Galvanized Bonderized Steel. Each	**21.50**

No. 29S—Size, 12x30 inches, 18 gauge. White Background. Black Letters and Border.

Regular Steel. Each	**$3.10**
Zinc Coated Steel. Each	**3.35**
Galvanized Bonderized Steel. Each	**3.35**

No. D5—Size, 18x24 inches, 18 gauge. White Background. Black Letters and Border.

Regular Steel. Each	**$2.25**
Zinc Coated Steel. Each	**2.65**
Galvanized Bonderized Steel. Each	**2.65**

No. 152S—Size, 12x24 inches, 18 gauge. White Background. Black Letters, Figures and Border.

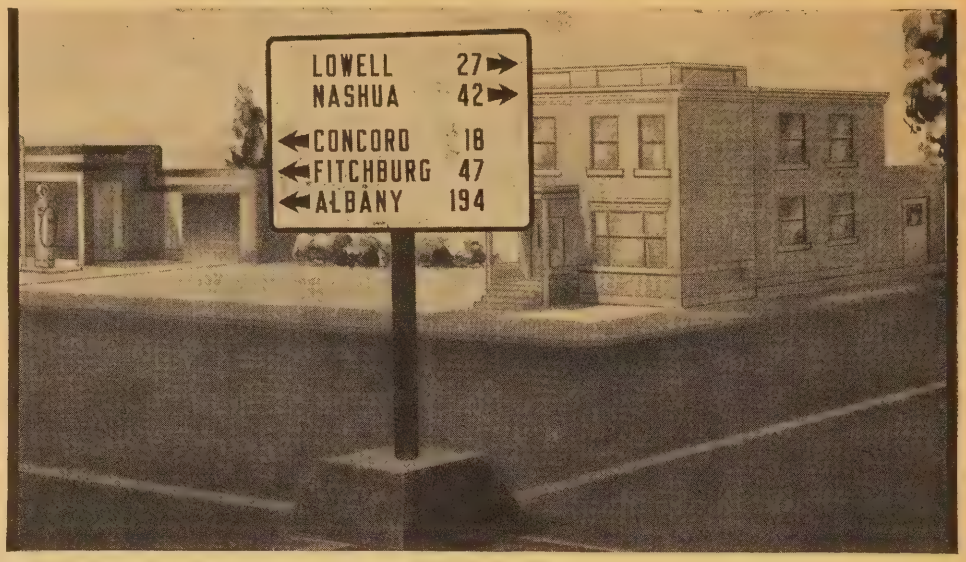
Regular Steel. Each	**$2.60**
Zinc Coated Steel. Each	**2.80**
Galvanized Bonderized Steel. Each	**2.80**

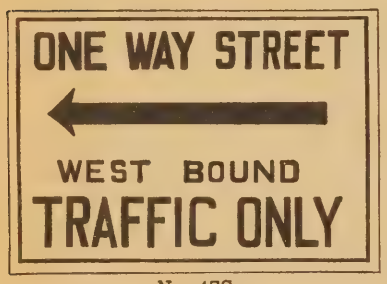
Any sign illustrated above can be reflectorized. Write for prices.

Standard Directional Signs

No. 33S

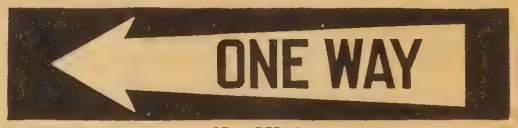
No. R52





No. 45S

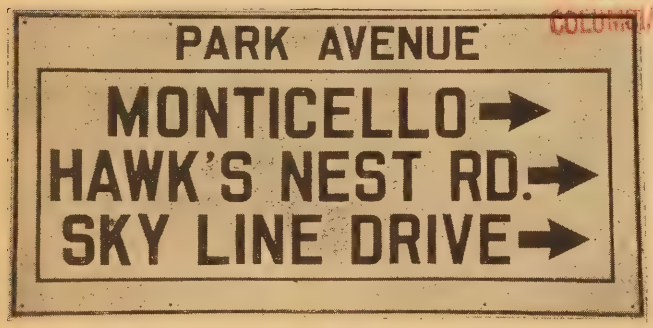
No. R1



No. CV39

No. 142N

AVERY LIBRARY
COLUMBIA UNIVERSITY



No. 27NY

No. 45S—Size, 18x24 inches, 18 gauge. White Background. Black Letters, Arrow and Border. Arrow can be made to point right or left.

Regular Steel. Each	**$3.10**
Zinc Coated Steel. Each	**3.50**
Galvanized Bonderized Steel. Each	**3.50**

No. R1—Size, 24x24 inches, 16 gauge. White Background. Black Letters and Border.

Regular Steel. Each	**$2.00**
Zinc Coated Steel. Each	**2.50**
Galvanized Bonderized Steel. Each	**2.50**

Nos. CV39 and 142N Signs can be made to read DETOUR instead of One Way at the same price.

No. 33S—Size, 12x12 inches, 18 gauge. White Background. Black Letters, Arrow and Border. Arrow can be made to point right or left.

Regular Steel. Each	**$2.25**
Zinc Coated Steel. Each	**2.35**
Galvanized Bonderized Steel. Each	**2.35**

No. R52—Size, 18x18 inches, 18 gauge. White Background. Black Letters, Arrow and Border. Arrow can be made to point right or left.

Regular Steel. Each	**$2.60**
Zinc Coated Steel. Each	**2.80**
Galvanized Bonderized Steel. Each	**2.80**

No. CV39—Size, 8x36 inches, 18 gauge. Black Background and Letters. White Arrow. Arrow can be made to point right or left.

Regular Steel. Each	**$2.25**
Zinc Coated Steel. Each	**2.40**
Galvanized Bonderized Steel. Each	**2.40**

No. 142N—Size, 12x36 inches, 18 gauge. Black Background and Letters. White Arrow. Arrow can be made to point right or left.

Regular Steel. Each	**$2.50**
Zinc Coated Steel. Each	**2.75**
Galvanized Bonderized Steel. Each	**2.75**

No. 27NY—Size, 24x48 inches, 16 gauge. White Background. Black Letters, Arrow and Border. Arrow can be made to point right or left.

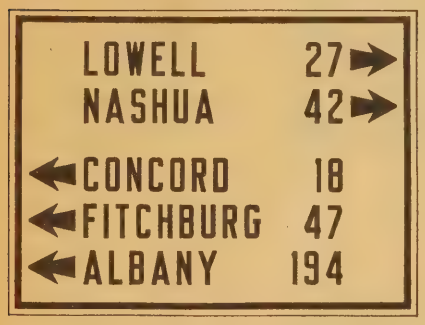
Regular Steel. Each	**$18.50**
Zinc Coated Steel. Each	**20.50**
Galvanized Bonderized Steel. Each	**20.50**

Standard Directional Sign and Route Markers

No. D15

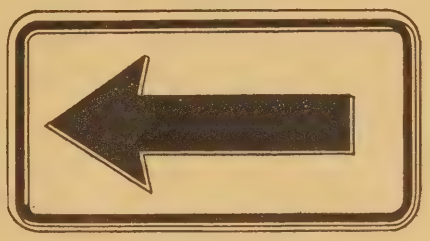
No. D1N

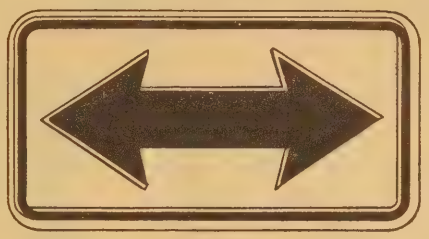
No. D1



No. D38

No. M32A


No. M19NB


No. M19NA

No. M4L

No. M4R

No. D4

No. M23

No. M3

Directional Signs are usually placed at intersections. Illustrations show effective designs.

Shield shape Route Markers are used on U. S., State and City Routes, between important points and at intersections.

Nos. D15, D1N, D1, D38—White Background. Black Letters, Figures, Arrow and Border. Arrows can be made to point right or left.

These Signs made of Regular Steel. Can be made of Zinc Coated or Galvanized Bonderized Steel by adding the following prices per sign: No. D15, add 15 cents; Nos. D1N, D1 and D38, add 50 cents.

No. D15—Size, 6x36 inches, 18 gauge. Each **$2.25**
No. D1N—Size, 18x42 inches, 16 gauge. Each **3.50**
No. D1—Size, 18x42 inches, 16 gauge. Each **3.50**
No. D38—Size, 25x30 inches, 16 gauge. Each **4.50**

No. M32A—Size, 8x20 inches, 18 gauge. White Background, Black Letters and Border.

Regular Steel. Each **$1.50**
Zinc Coated Steel. Each **1.60**
Galvanized Bonderized Steel. Each **1.60**

No. M19NB, M19NA—Size, 8x15 inches, 18 gauge. White Background. Black Arrow and Border.

Regular Steel. Each **$1.00**
Zinc Coated Steel. Each **1.15**
Galvanized Bonderized Steel. Each **1.15**

Nos. M4L, M4R—Size, 9x9 inches, 18 gauge. White Background. Black Letter and Border.

Regular Steel. Each **$0.95**
Zinc Coated Steel. Each **1.00**
Galvanized Bonderized Steel. Each **1.00**

No. D4—Size, 24x24 inches, 16 gauge. White Background. Black Letters and Border.

Regular Steel. Each **$2.00**
Zinc Coated Steel. Each **2.50**
Galvanized Bonderized Steel. Each **2.50**

No. M3—Size, 16x16½ inches, 18 gauge. White Background. Black Letters, Figures, Cross Bars and Border. Route Number and State Name can be changed to meet requirements.

Regular Steel. Each **$2.25**
Zinc Coated Steel. Each **2.40**
Galvanized Bonderized Steel. Each **2.40**

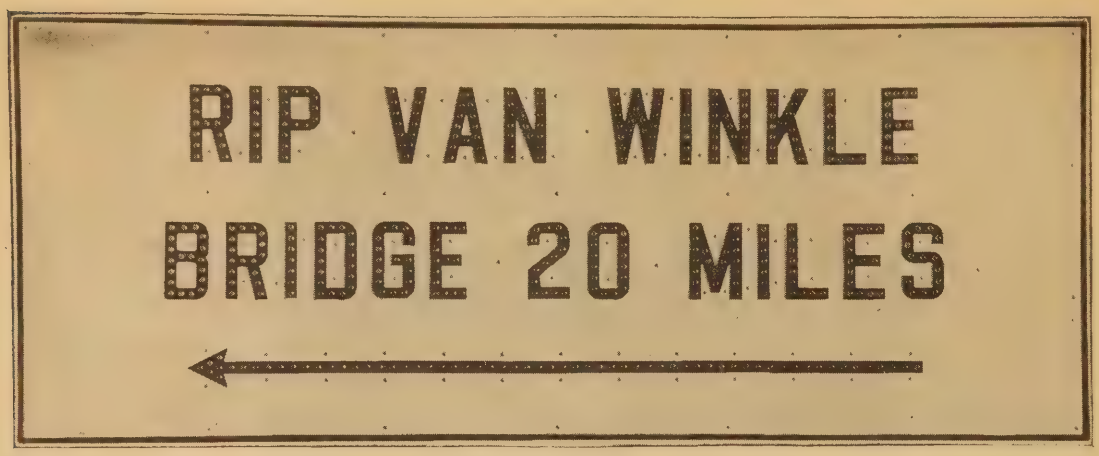
No. M23—Size, 11 11/32 x 11 23/32 inches, 18 gauge. White Background. Black Letters, Figures, Cross Bars and Border. Route Number can be changed to meet requirements.

Regular Steel. Each **$1.85**
Zinc Coated Steel. Each **1.95**
Galvanized Bonderized Steel. Each **1.95**

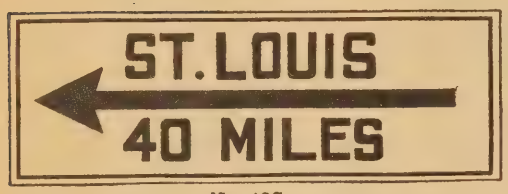
All Sign Prices Less 10% for Lots of One Dozen or More

Directional and Caution Signs

Plain and Reflecting

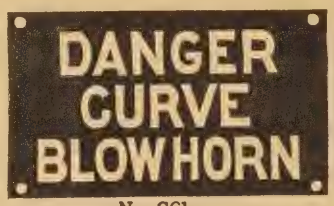


No. BC25NY



No. 42S

No. D7



No. S61

No. AL4

No. MISS. 25

No. R51

No. S48

No. BC25NY—Size, 24x48 inches, 16 gauge. White Background. Black Letters, Arrow and Border. Furnished with Crystal Buttons.

Full Back Box. Each **$68.00**

Arrow can be made to point right or left. Mileage can be changed to the required mileage.

No. 42S—Size, 18x36 inches, 16 gauge. White Background. Black Letters, Arrow, Figures and Border.

Regular Steel. Each **$4.60**
Zinc Coated Steel. Each **5.10**
Galvanized Bonderized Steel. Each **5.10**

Arrow can be made to point right or left. Mileage can be changed to the required mileage.

No. MISS-25—Size, 18x18 inches, 18 gauge. Yellow Background. Black Letters, Scull and Cross Bones and Border.

Regular Steel. Each **$1.75**
Zinc Coated Steel. Each **2.00**
Galvanized Bonderized Steel. Each **2.00**

A separate plate is placed at the top of this sign, giving the number of deaths.

No. D7—Size, 15x16 inches, 18 gauge. Green Background. White Letters and Border. Can be made to read "MEN" or "WOMEN".

Regular Steel. Each **$2.25**
Zinc Coated Steel. Each **2.35**
Galvanized Bonderized Steel. Each **2.35**

No. R51—Size, 24x24 inches, 16 gauge. White Background. Black Letters and Border.

Regular Steel. Each **$2.00**
Zinc Coated Steel. Each **2.50**
Galvanized Bonderized Steel. Each **2.50**

Nos. S61, S48—Size, 24x18 inches, 18 gauge. Red Background. White Letters and Border.

Regular Steel. Each **$3.10**
Zinc Coated Steel. Each **3.50**
Galvanized Bonderized Steel. Each **3.50**

No. AL4—Sign, 16 inches in diameter, 18 gauge. White Background. Black Letters and Border. Complete with a 1¾-inch pipe standard and a No. B2 base. Sign stands 4 feet 10 inches high.

Single Face Sign. Each **$9.00**
Double Face Sign. Each **11.25**

Send Cash with Order or Specify C.O.D. Shipment for our big 5% cash discount

Standard Restriction Signs

PLAIN

No. CV22

No. CV27

No. CV23

No. CV19

No. CV28

No. CV24

No. S4

Nos. CV22, CV27, CV19—Size, 12x18 inches, 18 gauge. White Background. Red Letters and Border.

Regular Steel. Each	**$1.60**
Zinc Coated Steel. Each	**1.75**
Galvanized Bonderized Steel. Each	**1.75**

Nos. CV23, CV28, CV24—Size, 12x18 inches, 18 gauge. White Background. Red Letters, Arrow and Border. Arrow can be made to point right or left.

Regular Steel. Each	**$1.65**
Zinc Coated Steel. Each	**1.80**
Galvanized Bonderized Steel. Each	**1.80**

No. S3

No. S4—Sign Size, 6x17 inches, 18 gauge. Black Background. White Letters and Border. Complete with 1⅜-inch pipe standard and No. B1 Base. Sign stands 36 inches high.

Signs made of Galvanized Bonderized Steel.

Single Face Sign. Each	**$7.00**
Double Face Sign. Each	**8.50**

No. S3—Sign Size, 6x18 inches, 18 gauge. Black Background. White Letters and Border. Complete with 1⅜-inch pipe standard and No. B1 Base. Sign stands 36 inches high.

Signs made of Galvanized Bonderized Steel.

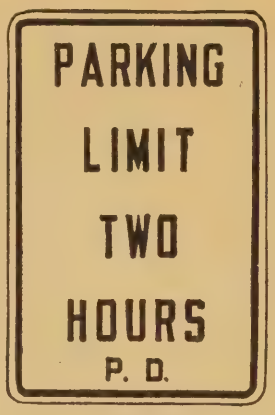
Single Face Sign. Each	**$7.00**
Double Face Sign. Each	**8.50**

Standard Restriction Signs

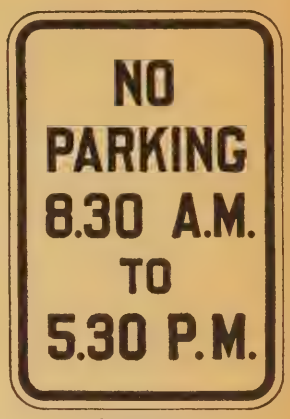
PLAIN

No. R25P

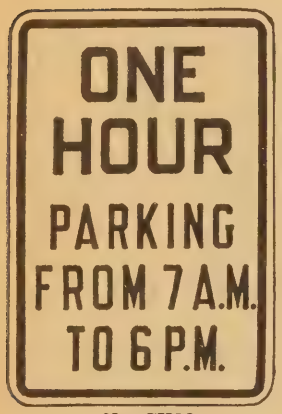
No. CV26



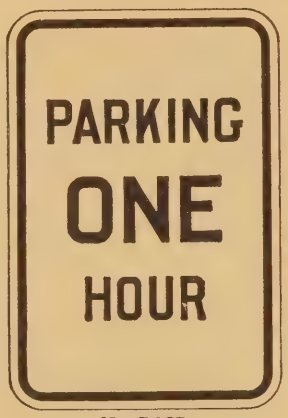
No. CV29



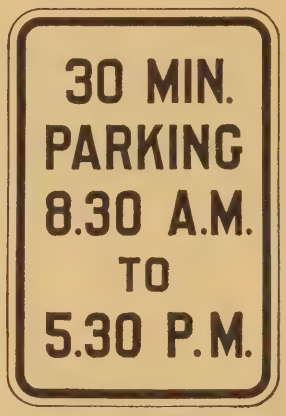
No. R27P



No. CV20



No. R28P



No. R17P

No. 37S

No. 25S

The Parking Signs illustrated on pages 29 and 30 are made according to U. S. Standards in size, shape, colors and letter size. Parking signs should be placed at the first and last point where the legal requirement is effective and at intervals of about 100 feet where requirement applies continuously for a considerable distance.

Nos. R25P, R28P, CV26—Size, 12x18 inches, 18 gauge. White Background.
Nos. R25P, CV26—Red Letters and Border.
No. R28P—Green Letters and Border.

Regular Steel. Each	**$1.60**
Zinc Coated Steel. Each	**1.75**
Galvanized Bonderized Steel. Each	**1.75**

Nos. CV20, CV29, R27P, R17P—Size 12x18 inches 18 gauge. White Background. Green Letters, Figures and Border.

Regular Steel. Each	**$1.65**
Zinc Coated Steel. Each	**1.80**
Galvanized Bonderized Steel. Each	**1.80**

Nos. 37S, 25S—Size 12x12 inches 18 gauge. White Background. Black Letters and Border.

Regular Steel. Each	**$2.25**
Zinc Coated Steel. Each	**2.35**
Galvanized Bonderized Steel. Each	**2.35**

No. G5—Sign Size, 14x20 inches, 18 gauge. Yellow Background. Black Letters. Same lettering stencilled on both sides. Sign made of Regular Steel. Complete with 1¾-inch pipe standard and No. B2 base with a 1-inch strap iron band around sign for protection. Sign stands 36 inches high.

Price. Each **$12.00**

No. G5

If you don't see what you want, Write us.—We have it

Standard Restriction Signs

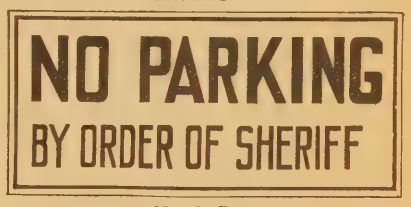
PLAIN

No. R3

FOR FIRE PLUGS

No. 200L

No. 28S



No. 27S

No. CV30

No. CV31

No. R3—Size, 24x24 inches, 16 gauge. White Background. Black Letters and Border.

Regular Steel. Each	**$2.00**
Zinc Coated Steel. Each	**2.50**
Galvanized Bonderized Steel. Each	**2.50**

Nos. CV30, CV31—Size, 18x18 inches, 18 gauge. White Background.

No. CV30—Black Letters, Figures and Border.

No. CV31—Red Letters and Border.

Regular Steel. Each	**$1.85**
Zinc Coated Steel. Each	**2.10**
Galvanized Bonderized Steel. Each	**2.10**

No. 200L—Size, 15x16 inches, 18 gauge. White Background. Black Letters and Figures. The figures can be changed to meet your requirements.

Regular Steel. Each	**$3.00**
Zinc Coated Steel. Each	**3.25**
Galvanized Bonderized Steel. Each	**3.25**

Specify outside diameter of hose connection when ordering.

Nos. 28S, 27S—Size, 12x30 inches, 18 gauge. White Background. Black Letters and Border.

Regular Steel. Each	**$2.60**
Zinc Coated Steel. Each	**2.80**
Galvanized Bonderized Steel. Each	**2.80**

Portable Danger Signals

No. DS20

No. DS20—Flag Size, 15½x5¼ inches, 18 gauge. Red Background. White Letters. Sign made of Regular Steel.

Complete with a 4-foot heavy wrought iron standard with hook at top for lantern, sharp point at bottom end.

Single Face. Each	**$2.75**
Double Face. Each	**3.00**

Danger Signals made of sheet steel with deep embossed letters on both sides. Flag enameled and baked on; will not crack, chip or peel off. They are easily forced into the ground, asphalt or between cobble stones. Their use will prevent damage suits for injuries to pedestrians or vehicles.

Our signs meet all the requirements as recommended by the Consolidated Manual of the Bureau of Public Roads and the American Association of State Highways Officials, in regards to shapes, dimensions, colors and legends, as well as manufacturing specifications.

All Sign Prices Less 10% for Lots of One Dozen or More

Auto Club Signs

No. AC2

No. AC3

No. AC4

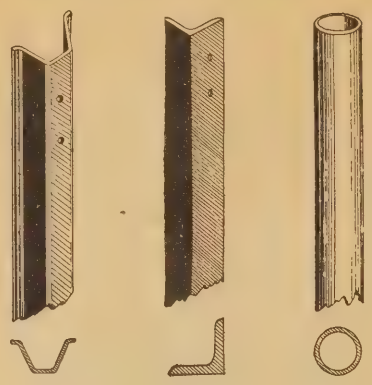
No. AC5

These signs erected along the highway will attract the attention of non-members as well as members, who will feel grateful of such a service.

Deep embossed letters and border materials used, meet U. S. Standard Specifications and finished up in any two colors enamel baked on. The markers only cost a little more than the regular markers.

Write for prices.

Posts for Highway and Traffic Signs



U Posts — Angle Iron Posts — Round Posts

These posts are made of high grade steel which has received the unqualified approval of City State and County Highway Commissioners and Engineers throughout the country.

Made in U Angle and Round designs. They can be driven in any soil quickly and will remain straight and solid.

Signs are quickly attached by means of bolts. Suitable punching can be obtained to accommodate various sizes and designs of Signs.

These posts are furnished in Galvanized and Black Iron Black Iron Posts are painted.

The above posts are the recommended sizes and weights for all standard markers and signs. Can be furnished in lighter weights and other lengths. Prices quoted on request.

U POSTS	Black Iron	Galvanized
Size, 2⅜x1x1½x⅛-inch.		
Weight, 2 lbs. per foot.	Each	Each
6 ft., wt. about 12 lbs.	$1.60	$2.00
8 ft., wt. about 16 lbs.	2.00	2.50
10 ft., wt. about 20 lbs.	2.25	2.75

ANGLE IRON POSTS

Size, 1½x1½x3/16-inch.		
Weight, 1.8 lbs. per ft.		
6 ft., wt. about 10¾ lbs.	$1.50	$1.90
8 ft., wt. about 14½ lbs.	1.75	2.25
10 ft., wt. about 18 lbs.	2.00	3.00

ROUND IRON POSTS

(Not threaded for top cap).
Size—Inside diameter, 2.067 inches; Outside diameter, 2.375 inches.
Weight, 3⅜ lbs. per ft.

6 ft., wt. about 22 lbs.	$4.25	$5.00
8 ft., wt. about 29½ lbs.	5.25	6.25
10 ft., wt. about 36¾ lbs.	6.25	7.50

Posts threaded at top for cap. Extra . . $0.25
Posts with upper portion flattened.
Extra 45

Posts made of 2-inch boiler tubing, weight 2.10 lbs. per foot, can be furnished at the same price.

ANCHORS FOR POSTS

Any of the above posts can be furnished with anchors of triangular design, at 45 cents per post, extra. Anchors are riveted or welded on according to designs of post, at our option.

Special prices in larger quantities.

Pipe Standards for Portable Signs

These Standards are carried in stock in three sizes 1⅜-inch, 1¾-inch and 1⅞-inch in diameter and in lengths from 2 to 5 feet. Black enameled finished. When only one sign is to be used the standards are only flattened on one side at top; if two signs are used making a two-way sign, the standards are flattened on both sides. Two or three holes are drilled in standards for attaching signs.

Stand. 1⅜-in. Style No. 1 or 2.	
2-foot Lengths. Each	$2.00
3-foot Lengths. Each	2.25
4-foot Lengths. Each	2.50
5-foot Lengths. Each	2.75
Stand. 1¾-in. Style No. 1 or 2.	
2-foot Lengths. Each	$2.25
3-foot Lengths. Each	2.50
4-foot Lengths. Each	2.75
5-foot Lengths. Each	3.00
Stand. 1⅞-in. Style No. 1 or 2.	
2-foot Lengths. Each	$2.50
3-foot Lengths. Each	2.75
4-foot Lengths. Each	3.00
5-foot Lengths. Each	3.25

No. 1 — No. 2

Portable Sign Bases

No. B1

No. B2

No. B3

These bases are of cast iron made in three sizes, enameled in black baked on. All bases furnished with a set screw for tightening pipe standard into base.

These are sufficiently large and heavy for all standard signs.

Base No. B1 for 12x18-inch signs or smaller. Size, 11½ inches in diameter. Weight, 11½ pounds. Made for 1⅜-inch pipe standard.
Each $2.25

Base No. B2 for 18x18-inch signs. Size, 15 inches in diameter. Weight 19 pounds. Made for 1¾-inch pipe standard.
Each $3.25

Base No. B3 for 24x24-inch signs. Size, 19 inches in diameter. Weight 36 pounds. Made for 1⅞-inch pipe standard.
Each $6.00

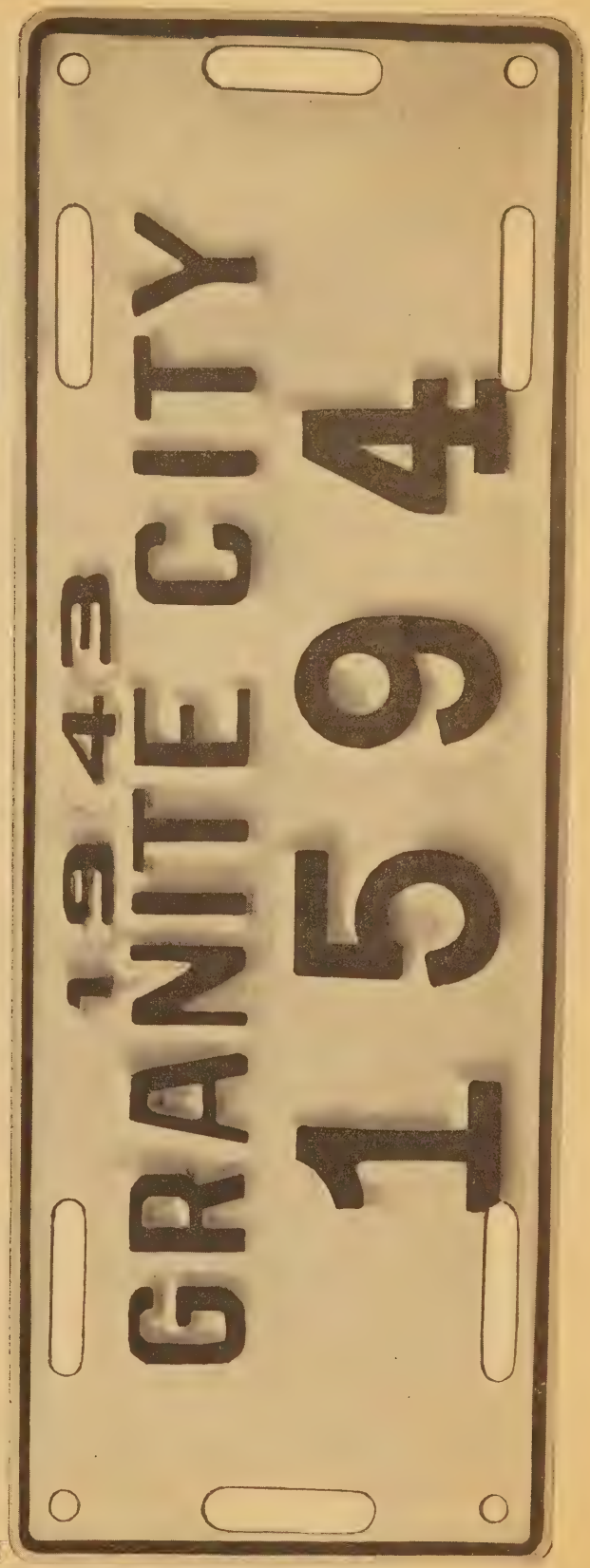
All Shipments Direct From Factory To You At Ameica's Lowest Prices

Embossed Enameled Steel License Plates

Style E20—Actual Size

If Special Styles or Shapes are Desired, Write for Prices

Style E3—Actual Size



Style E22—Actual Size

Made of baked enamel steel raised letters, border and figures. Enameled in any two colors—background one color, letters, border and figures in any other color, with town name, name of vehicle, such as "Automobile," "Taxicab," "Express," "Dray," "Junk," "Truck," state initials, year and number.

	12	25	50	100	200	500	1000
Style E20.....	$5.00	$7.00	$12.00	$20.00	$35.00	$60.00	$90.00
Style E3.....	4.25	5.50	9.00	15.75	25.25	45.00	78.00
Style E22.....	4.75	6.75	11.00	18.00	32.00	55.00	85.00

Special prices in larger quantities. Always specify style number and colors.

All License Plate Prices Net — Subject To 5% Cash Discount Only

"KANTOFF" Windshield Auto License

Clock Style—Actual Size

Crest Style—Actual Size

These are **NOT** Common Gummed Stickers and cannot be duplicated by others.

We have added to our well known Metal License Plate Line the Adhesive "KANTOFF" Windshield Auto License, which is used by some Cities for certain conditions.

To meet this demand we have perfected a Windshield Adhesive Auto License which is more superior in adhesive qualities than the ordinary gummed sticker, they are waterproof and weatherproof, tested 20 degrees below zero to 150 degrees above.

The 3/8-inch figures used in numbering license are specially designed for this purpose (patent applied for) and cannot be duplicated without going to a great expense and serious infringement of the law, all of which gives you added protection against petty offenders.

Many of the Cities and Towns have used the ordinary gummed sticker for Auto Windshield License, but have discontinued their use, as they have proved impractical and are now buying our "KANTOFF" Windshield Auto License which is water and weatherproof.

If you are interested for your immediate requirements we would be glad to have your inquiry and we will send you samples.

PRICES

Quantity	50	100	200	500	1000
Each.....	**$0.20**	**$0.14**	**$0.11**	**$0.06½**	**$0.05¾**

Special Prices in Larger Quantities

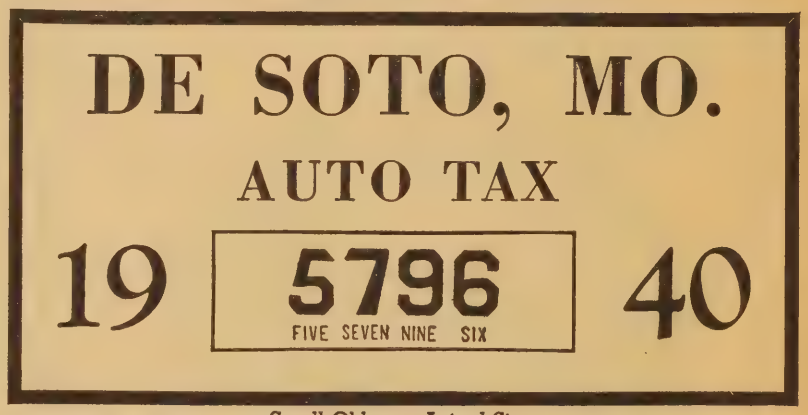
Fac-Simile Signatures on "KANTOFF" Windshield Auto License are Extra **$2.50** per Name.

A picturs of a Building is also Extra.

ALWAYS SPECIFY COLORS WANTED

Samples for testing purproses will be sent on request.

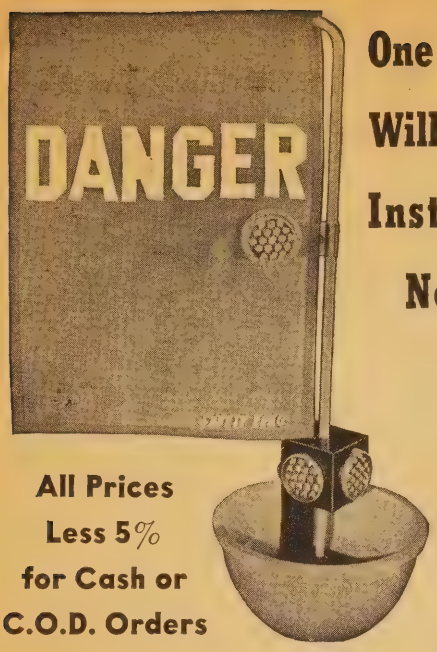
Write for our complete Catalogs on Fire and Police Equipment



Small Oblong—Actual Size

Buckle Style—Actual Size

Be Sure To Specify Colors, Exact Lettering and Numbering When Ordering



One Accident Prevented Will Pay for an Entire Installation of These New Safety Flags

All Prices Less 5% for Cash or C.O.D. Orders

There is no better way of giving warning to the motoring public of danger ahead than the Red Flag for day use or a Red Reflector at night. The Safety Flag will do the job day or night because it has the Red Flag and the Reflectors. It can be placed in the middle of the pavement, on the sidewalk, or any place where warning is required. Many towns use them at school crossings, where they are effective.

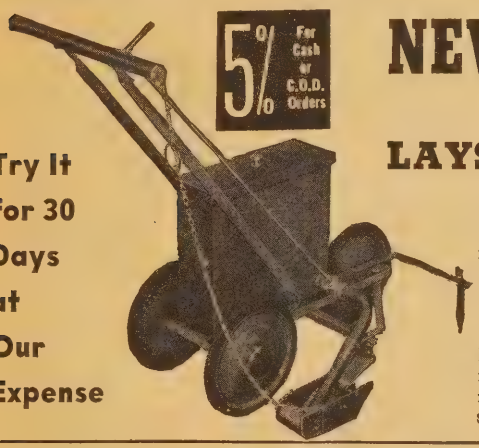
High enough to be seen and low enough not to be injurious. The strongest wind cannot blow it over. Always upright. Size of flag 10½" x 14½". Size of reflectors 1½" x 1½".

With self-righting base. No bulbs, no wiring, no oil. Always ready for use. Visible day or night 500 feet or more.

No. K369 Safety Warning Flags, each complete with 6 red 1½" reflectors and base, any wording shown below, only **$4.95**

DANGER	DANGER DETOUR	
DANGER TRUCKS	GRADER AHEAD	SCHOOL ZONE
DANGER WRECK	MEN WORKING	DANGER AHEAD
WET PAINT	FRESH OIL	CATTLE CROSSING
KEEP OFF	DANGER	

FOR QUICK SERVICE WIRE COLLECT. WE PAY ALL CHARGES



5% For Cash or C.O.D. Orders

Try It for 30 Days at Our Expense

NEW Street Traffic Line Markers

BUILT FOR HEAVY DUTY SERVICE

LAYS STRAIGHT TRUE LINES WITH ANY PAINT

The most practical type of marker made. Paints a side stripe (operator walks naturally and does not have to "straddle" newly painted line). Especially designed for painting safety lines on streets, highways, parking spaces, in warehouse and industrial plants, etc. This is a one man machine. Will paint over a mile of lines an hour. No "trick gadgets" to get out of order.

Simple gravity feed. Your paint flows in an even, smooth line from reservoir to the all-metal Flexible Spreader which lays down a fine, clean cut line on any type of road no matter how bumpy the surface may be. The operator has complete control of the line density from a control handle on the push bar. Even when full of paint our new TRAFFIC LINE MARKER with its roller bearings and rubber tired wheels is light and easy to handle. All metal, flexible spreaders do the actual painting. No brushes, wheel bands or spraying apparatus to get out of order. Spreader is detachable for cleaning and also to attach a different size spreader as desired. The flexible spreader is always ready for service if placed in just sufficient kerosene oil to cover it when not in use.

Tank capacity: three gallons. Comes complete with Spreader of any width (when ordering please specify 2, 3, 4, 6 or 8 inch Spreader). Will mark up to within 1½ inch of any parallel obstruction. Rubber tired wheels with roller bearings. Automatic road depression leveler provides for dips and bumps and the wheels roll the paint right into the road.

For efficiency, dependability and economy, our new Traffic Marker has no equal, and the labor, time and money it saves justifies its purchase.

No. K185 New Traffic Line Marker **$75.00**

Specify size of spreader wanted—2, 3, 4, 6 or 8 in. width.

Open up your traffic lanes 15 minutes after painting them with General Wearever Street Marking Paint

No need to tie up traffic for long periods to paint your traffic lines on asphalt, wood, brick, stone, concrete or other surfaced highways. GENERAL WEAREVER STREET MARKING PAINT gives you an extra dense opacity of color, with no chipping, flaking or cracking and a drying speed that will meet the most severe requirements.

Lay a few lines at your busiest intersection with this paint and see for yourself its durability, coverage and quick drying qualities. We know our paint will STAND ANY TEST YOU CAN GIVE IT.

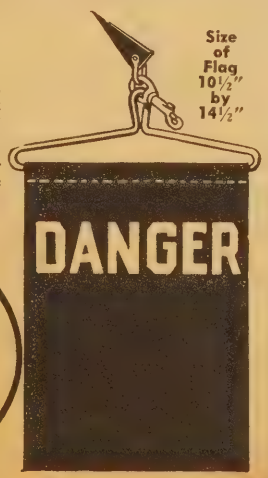
In Barrel Lots		In 5-Gallon Cans		In 1-Gallon Cans	
White	$1.50 per gal.	White	$ 8.65	White	$1.88
Yellow	1.80 per gal.	Yellow	10.15	Yellow	2.20
Red	2.10 per gal.	Red	11.65	Red	2.50

Barrels available in 30-Gallon or 50-Gallon Capacity

TRAILER FLAG

With bridle snap for fastening to back of truck or load and with timber drift for driving into end of pole or logs.

No. K374 New Trailer Flag, red with white lettering, each **$1.50**



Size of Flag 10½" by 14½"

Size of Sign 7" x 14". Size of Base 4¼" x 18". Packed 2 Signs and Bases Each Box.

Flexible Rubber Traffic Guides

THE NEW KIND — EASY TO INSTALL

A flexible rubber panel 18 inches long standing upright on the pavement 7 inches high, with bold letters of Federal Yellow moulded in the sign.

Easily read for a distance of 500 feet in the day time and being set directly in the focus of headlights, for a distance of 250 feet at night.

Made with STEEL BASE to BOLT to pavements. No slots to cut and installed without defacing the roadway or street.

No. K368 Flexible Rubber Guides. Complete, each **$6.50**

Specify Lettering Desired

STOP — SCHOOL — NO U TURN
SLOW — NO LEFT TURN

YOU ARE WELCOME TO ORDER ANY ITEM IN THIS CATALOG FOR 30 DAYS FREE TRIAL

NEW Danger Signal Flare Torches

Burner Will Not Become Clogged with Soot

$1.39 EACH

There's no mistaking the warning flame of the Dietz Torch. Adequate and dependable protection for motorists and pedestrians. Can be seen from distance, never fails to attract attention.

Made of steel with double seamed joint that is absolutely leakproof. Fitted with carrying ring. Because of its spherical shape and weighted bottom, this torch will right itself when knocked over or skidded from position by passing vehicle. Fitted with All-Weather Steel Burner with Fixed Rain Shield, and Spiral Wick Feed, which prevents wick from slipping. Construction of the torch prevents bleeding and LEAKAGE. Capacity, 2¾ qts.; burns more than 30 hours on one filling. Burns kerosene, fuel oil or light distillates. Finished in red enamel.

No. K380 Dietz All-Weather Highway Torch, each ..... $ 1.39
No. K381 Dietz All-Weather Highway Torch, per dozen 13.90

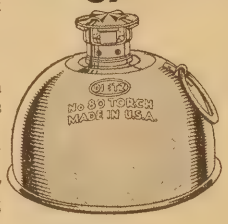
We will weld a brass label on torches for only 15c extra per torch. This label can have any wording you specify. Maximum wording 4 lines each with 20 letters or spaces. Sample wording—STOLEN FROM (or Property of) CITY OF DETROIT, MICH. On orders of 6 doz. or more torches labels attached free. Any torches can have labels.

NEW FLARE TORCHES

ONLY 87c EACH

A special flat bottom torch and because of its construction very economical to make and low in price. Uses the same size wick as others, full size burner and flame.

THE HARDER IT BLOWS, THE BETTER THESE TORCHES BURN

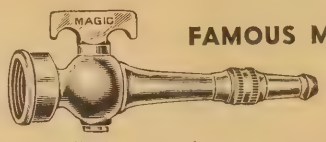


Made of steel. Fitted with All-Weather Steel Burner with Fixed Rain Shield, and Spiral Wick Feed, which prevents wick from slipping. Enameled red. Handy carrying ring.

Capacity, 2½ quarts; burns more than 30 hours on one filling. Burns kerosene, fuel oil or light distillates.

No. K387 Highway Torch, each ..... $ .87
Per dozen 9.95

FAMOUS MAGIC NOZZLE



This Magic Nozzle is the old original style and preferred by many. It is extra heavy construction, shuts off quick. Solid brass and will meet the demands of any user. Made with a ground in key plug and a three-way cock, giving a solid stream, spray or shut-off.

No. K388 Magic Nozzle, each ..... $ .92
Half dozen, **$5.25.** Dozen 10.20

Oily Waste Cans and Safety Cans

These portable cans will protect your buildings, increase shop efficiency and reduce your Fire Insurance. Waste cans are especially made to hold waste, rags and all kinds of inflammable materials. The Safety Cans are for storing inflammable liquids. The spout cap is controlled by a strong, non-rusting spring which holds the cap closed tight, preventing leakage and evaporation.

Both of these devices are fully approved and labeled by Underwriter's Laboratories, Inc.

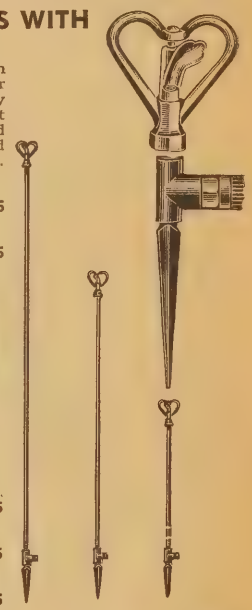
No. 72 Oily Waste Can

6-Gal. Capacity	$4.80
8-Gal. Capacity	5.40
10-Gal. Capacity	6.00
14-Gal. Capacity	7.20

No. 248 Safety Can

1-Pt. Capacity	$2.40
1-Qt. Capacity	2.70
2-Qt. Capacity	3.00
1-Gal. Capacity	3.60
2-Gal. Capacity	4.20
3-Gal. Capacity	5.40
5-Gal. Capacity	6.60

HARTFORD SPRINKLERS WITH BLAKE HEADS



These Sprinklers, equipped with Blake Heads, are excellent water distributors and very popular. They have the added advantage of height and throw a fine, widely distributed spray. The spike is easily pushed into the ground and holds firmly.

No. K396 Park Sprinkler, 4 ft. high. Half doz., **$9.50.** Each $1.65
No. K397 Park Sprinkler, 6 ft. high. Half doz., **$11.25.** Each $1.95

SPRINKLER HEADS

These are the famous Blake Sprinkler Heads *only*. Thousands are in service in Parks and on Public Grounds. Simply tee them into pipe lines, with or without vertical "riser" pipes.

No. K390 For ¾-inch Hose Thread. Each, **40c.** Per doz. $4.45
No. K391 For ¾-inch Iron Pipe Thread. Each, **40c.** Per doz. 4.45
No. K392 For 1-inch Iron Pipe Thread. Each, **60c.** Per doz. 6.85

Corrugated Rubbish Cans

Removable Hood Style—For City Streets, Parks, Etc.

Made of 22 gauge tight-coat copper alloy galvanized steel.
Hood top is removable for emptying—a very important feature.
This type eliminates the necessity of an inner container.
Hood has a large push-type opening which automatically closes and has an extra deep rim which fits snugly over top of can.
The can is reinforced at top with heavy wire hoop and swedge.
Corrugated sides greatly increasing strength.
Deep drawn raised bottom double seamed on and reinforced with heavy iron band securely riveted.
Heavy drop handles riveted on. Enameled green. Measures 20" in diameter by 41" overall. Weight approximately 42 pounds.

No. K398 Rubbish can $9.75

YOU ARE WELCOME TO ORDER ANY ITEM IN THIS CATALOG FOR 30 DAYS FREE TRIAL

Remember Our Guarantee

Every General product is unconditionally guaranteed to satisfy you. If you find anything not as represented or unsatisfactory for any reason, we want you to return it. Our reputation for honesty and integrity, built up over a period of almost 40 years in business, is your assurance of the A1 quality of every item described.

Water Pails

Made of 28 gauge tight-coat copper alloy galvanized steel.
Reinforced at top with heavy wire hoop.
Deep drawn, raised bottom, double seamed on.
Heavy wire wood grip bail and riveted ears.
Hand soldered — water tight. Striped black.
Weight approximately 3 lbs each.

Cat. No.	Diam.	Height	Cap.	Per Doz.
K382	11½"	9"	10 Qts.	$6.15
K383	12"	10"	12 Qts.	6.45
K384	12½"	10½"	14 Qts.	6.85
K385	13¼"	10¾"	16 Qts.	7.61

Ash Cans

Made of 24 gauge tight-coat copper alloy galvanized steel.
Reinforced at top with heavy wire hoop and swedge.
Reinforced at top and bottom with heavy iron bands riveted on.
Corrugated sides for greatly increased strength.
Deep drawn, raised bottom, double seamed on.
Heavy drop handles riveted on. Striped red. Weight from 21 to 29 lbs. each.

Cat. No.	Diam.	Height	Cap.	Can	Cover
K401	16½"	25"	21 Gal.	$2.40	$0.35
K402	18½"	25"	27 Gal.	2.75	.40
K403	20½"	25"	33 Gal.	3.10	.50
K404	22"	25"	40 Gal.	3.50	.65

Rubbish Cans

Hoods Attached

Made of 22 gauge tight-coat copper alloy galvanized steel.
Extra heavy wood (open style) securely riveted to top of can.
Hood is reinforced around edge with heavy steel wire.
Convenient for the depositing of papers, etc., and easily emptied.
Can is reinforced around the top with heavy wire hoop and swedge.
Corrugated sides greatly increase the strength.
Deep drawn, raised bottom, double seamed on and reinforced with heavy iron band, securely riveted.
Heavy drop handles riveted on. Enameled green. Diameter 20", overall height 39". Weight 31 lbs.

No. K400 Rubbish Can with Hood $5.95

SELF-CLOSING UTILITY WASTE RECEPTACLES

SAFE—SANITARY—ECONOMICAL

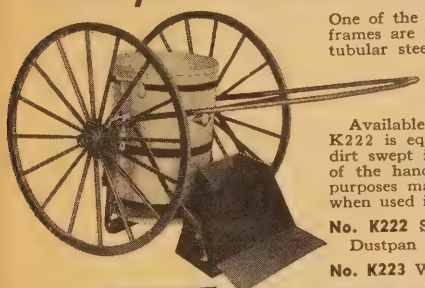
These famous Self-Closing Utility Receptacles are made in seven sizes to encompass every possible use. Their sturdy construction and modern method of manufacture guarantee long life and service.

The top of each receptacle is fitted with two independent, free swinging doors mounted on brass pin hinges which are noiseless in operation. These doors are closely fitted to the openings. There are no sharp points, corners or edges. Every receptacle is smooth and clean, providing the utmost safety in operation and handling.

All tops are mounted on heavy concealed hinges which also act as stops to keep the top in an open position when removing the inner container. Always closed yet always ready for use, these receptacles offer the maximum in service at a minimum of cost. They are ideal for offices, schools, hospitals, public buildings, railroad terminals, street corners, lavatories and factories. When ordering be sure to mention catalog number and color desired.

Cat. No.	Size of Base Inches	Body Height Inches	Overall Height Inches	Approx. Capacity Gals.	Approx. Shipping Wgt. Lbs.	Inner Container Furnished Standard	PRICES		
							Gray or Green	White Enamel	Grained Mahogany
K430	11½ x 11½	18	24¾	9½	20	12 Paper bags	$ 6.60	$ 7.15	$10.20
K431	11½ x 11½	28	34½	18	32	1 Galv. can	9.10	9.00	13.20
K432	11½ x 11½	35	41¾	23	36	1 Galv. can	9.90	10.75	14.30
K433	16 x 16	27	35½	27	44	1 Burlap bag	10.50	11.50	16.00
K434	16 x 16	31	39½	31	56	1 Burlap bag	13.75	Stocked in Green only	
K435	21 x 21	35	46	65	86	1 Burlap bag	16.50	18.75	26.40
K436	21 x 21	37	47¾	65	106	1 Burlap bag	22.00	Stocked in Green only	

A Handy Street Cleaner's Cart for Cities, Towns and Villages



One of the most rugged devices of its kind on the market. The frames are made of heavy forged steel, equipped with a strong tubular steel handle. There is also a galvanized chain to hold the can in place. Wheels are 36″ in diameter, light weight and of sturdy steel construction. The channel rim eliminates weight, adds strength and provides for spoke anchorage.

Available either with or without dustpan attachment. No. K222 is equipped with a large steel dustpan, so arranged that dirt swept into pan may be emptied by an upward movement of the handle, depositing contents in the can. But for several purposes many prefer the cart only without dustpan, especially when used in parks, etc., cleaning up paper, leaves and rubbish.

No. K222 Street Cleaner's Cart complete with Can and Dustpan attachment **$39.95**

No. K223 With Can but without Dustpan Attachment ... **33.55**

5% DISCOUNT FOR CASH OR C.O.D. ORDERS

Self-Closing Waste Cans

Rain Proof — Rust Proof — Vermin Proof—Trouble Proof — Economical —Streamlined—Easy to Operate—Top Interchangeable with Standard Cans

This is a standard can with a cover so constructed to permit ease in disposing of waste. Both top and can are made of heavy black steel, then hot-dipped galvanized after fabrication. Will last for years. Can has ⅛″x2¼″ reinforcing band steel at top and bottom. Can be furnished with lock on cover at slight additional cost.

For Schools, Parks, Playgrounds

May Be Purchased Complete or You Can Buy Tops Only to Fit Your Cans

Catalog No.	K224	K225
Size, overall	18″x36″	20½″x36¼″
Size, can only	18″x26″	20½″x26¼″
Capacity	27 gal.	33 gal.
Weight	28 lbs.	32 lbs.
Price, complete	**$6.20**	**$7.30**

CANS AND TOPS PURCHASED SEPARATELY

No. K226 Self-closing Top for any standard 18″ diameter can **$3.25**

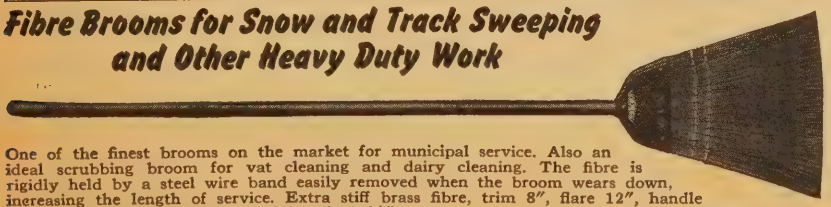
No. K227 Self-closing Top for any standard 20½″ diameter can **3.95**

No. K228 Can only, size 18″x26″ **3.30**

No. K229 Can only, size 20½″x26¼″ **3.75**

For Street Corners and Public Centers

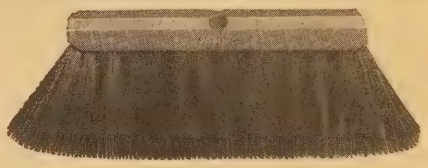
Fibre Brooms for Snow and Track Sweeping and Other Heavy Duty Work



One of the finest brooms on the market for municipal service. Also an ideal scrubbing broom for vat cleaning and dairy cleaning. The fibre is rigidly held by a steel wire band easily removed when the broom wears down, increasing the length of service. Extra stiff brass fibre, trim 8″, flare 12″, handle 1⅛″ diameter, 42″ long, overall length 53¾″.

No. K230 Upright Fibre Brooms, per dozen, **$15.00**; each **$1.48**

Genuine African Bass Push Brooms



Recommended over all other Push Brooms for general street sweeping. Heavily filled with African Bass fibre, with an exceptionally wide flare. This fibre is medium coarse and very durable. These brushes will do a clean sweeping job, especially on comparatively smooth surfaces, and will give exceptionally long service. Standard with thousands of U. S. cities. You can't find a better brush for outdoor sweeping.

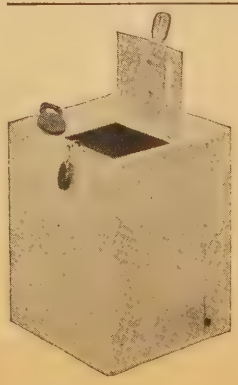
No. K231 Bass Street Brush, each ..... **$ .90**
Per dozen **9.95**

No. K232 Brush Handles, per dozen **1.95**

Ideal Voting Booths are convenient, durable and economical. Discard your old equipment and install the new, modern combination steel and wood voting booths. They pay for themselves the first time used.

The above is a front view of a three-stall steel and wood voting booth. One curtain is down and two curtains are up, showing shelves down and two persons who are preparing to vote. The shelves are 12 inches wide and have places for candles when needed. The stalls are 24 inches wide, 26 inches deep and 72 inches high. When folded up this booth is 5″ thick. They are very easily handled and can be stored in a small space when not needed.

No. K233 Three-stall Voting Booth, complete **$35.00**



Special All-Steel Ballot Boxes for All Purposes

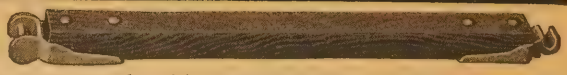
We are in a position to furnish ballot boxes of all styles and sizes. The sizes listed below are standard in most states and are regulation for State and County. If special sizes are desired, write for quotation. Two keys are furnished with each ballot box and we will paint them any color. Specify color when ordering.

No. K234 State Box, 14″x18″x18″ **$6.00**

No. K235 County Box, 14″x14″x15″ **5.50**

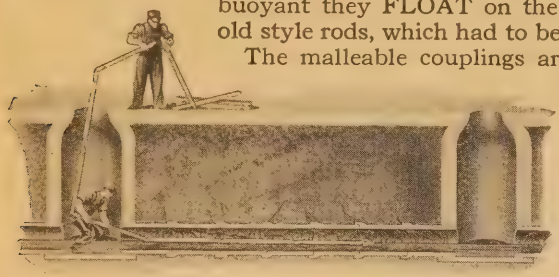
Buy Direct from General—30 Days Free Trial—5% Discount for Cash or C.O.D. Orders

The Finest Sewer Rods at Any Price—Stronger and Lighter and THEY FLOAT



Sewer Rods are one of the essential contrivances that every city sewer department should possess. Many jobs can be done with a good and efficient sewer rod that might, if left undone, cost many dollars to do later on. A simple congestion in small sewers can many times be removed by the use of rods and accessories.

General Sewer Rods are made from selected Oregon Fir—the strongest structural wood now in existence. This material was selected for its buoyancy and long life. Because General Rods are LIGHTER and much easier to handle, they are so buoyant they FLOAT on the surface of the water in the sewer. This is a distinct advantage over the old style rods, which had to be pushed along the bottom of the tile.



The malleable couplings are made light and strong and are riveted with two flat head rivets. The connections cannot become unhooked when in the tile because they must be held at nearly right angles to hook or unhook. This is also an advantage while hooking them together or unhooking them in the process of taking them out. Order General Rods for SERVICE and LONG LIFE and take advantage of these bargain prices.

No. K350 General Sewer Rods, 3½ feet long, each..... **55c**

No. K351 General Sewer Rods, 4 feet long, each..... **65c**

ROOT CUTTING STEEL SEWER SAWS

Every Sewer System should have this tool. Gets the roots and pulls them out. The most effective sewer tool made. Used by Sewer Depts. from coast to coast. Use this and you will soon forget that root infested sewers were ever a costly problem.

Made of steel bent to angle shape with special steel cutting blades riveted to place at 45° angles across the holder. Cutters sheared to angle points and laid criss-cross to produce a sawing effect on all sides when pulled back and forth.

When roots are cut, torn and loosened they come out with the cutter.

The cutter complete, 2 units, is 6 feet long, with 12 strong blades, each 6″ across. Suitable for sewers of any size from 6 inches up.

No. K357 Root Cutting Sewer Saw, weight 21 lbs., each..... **$16.80**

Sewer Suits—Complete Protection

Made of Olive drab double texture materials, with fine quality rubber joining the two fabrics.

Body of jacket made one piece to reduce number of seams, hood with draw-strings around front, storm-fly front, closing the garment perfectly. All seams sewed, strapped and cemented, making it absolutely waterproof. Sleeves at wrist made to button close to exclude water, mud, filth.

Pants made with minimum number of seams, draw-string at waist, bottom of pants can be buttoned close to exclude sewage and for wearing inside boots.

Thoroughly waterproof, completely protected, most comfortable combination ever designed for cold wet work.

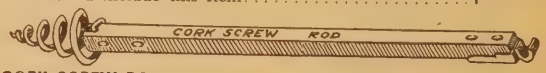
No. K358 Sewer Suits. Each..... **$8.95**

TELEGRAPH COLLECT—WE PAY ALL CHARGES

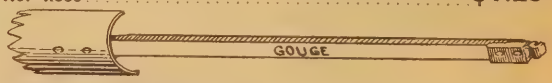
GENERAL SEWER ROD ACCESSORIES

We recommend the complete set of sewer rod accessories to all purchasers. You will find them practical tools, durable and inexpensive.

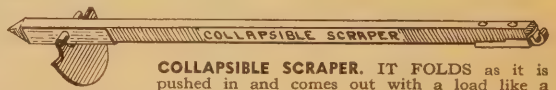
SEWER ROD GUIDE No. K352 Every order for sewer rods should include this item..... **$1.00**



CORK SCREW ROD. Pulls out rags, paper, tree roots. **No. K353**..... **$1.25**



SEWER ROD GOUGE. Used to remove cement, roots and other obstructions which impede sewage flow. **No. K354**..... **$2.00**



COLLAPSIBLE SCRAPER. IT FOLDS as it is pushed in and comes out with a load like a HOE. The scraper should be with every rod outfit.

No. K355 Small size for 6-in. and smaller sewers..... **$2.90**

No. K356 Large size for 8-in. and larger sewers..... **$2.90**

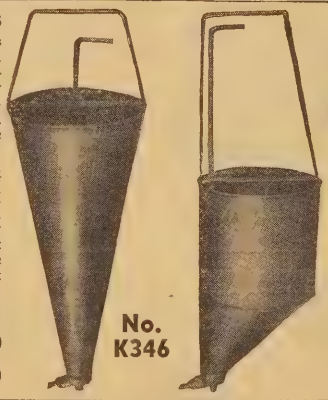
Pouring Pots and Joint Fillers

All our pouring pots and joint fillers are light and strong, with all welded construction. Extra durable. Accumulation of cold asphaltic material may be burned out, as no solder, lock-seaming or galvanizing are used in their assembly. All seams acetylene welded.

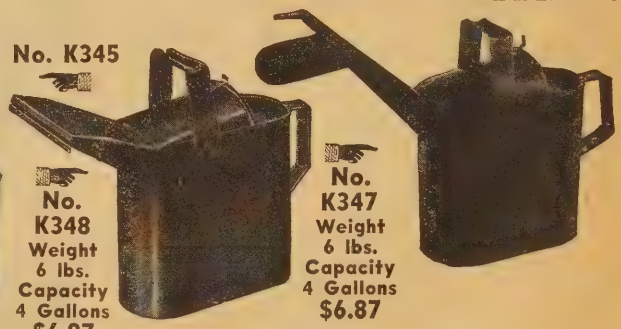
No. K345 and K346 Crack and Joint Fillers have three sizes of nozzles and a quick acting ground seat shut off valve designed to hold the heat and avoid congealing. No packings are used in the valve assembly and these pots may therefore be burned out without damage. No. K346 will fill under low heating kettle draw offs. Filler screens available when specified. Neat and accurate pourers, they do better work and frequently save their cost in material in a single day. Weight, 7 lbs.; capacity, 2 gals.

No. K345 Joint Filler, each..... **$11.00**

No. K346 Joint Filler, each..... **$12.10**



No. K346

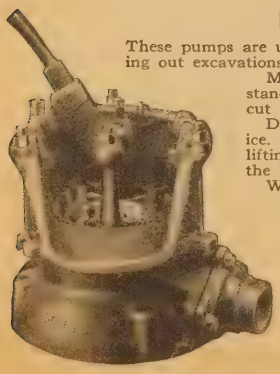


No. K345

No. K348 Weight 6 lbs. Capacity 4 Gallons $6.87

No. K347 Weight 6 lbs. Capacity 4 Gallons $6.87

DIAPHRAGM SUCTION PUMPS



These pumps are unexcelled for rough and ready service such as required in pumping out excavations, trenches, sewers, cellars and ditches.

Made special with suction hose attachment at the side. This is the standard pump used by hundreds of our municipal customers. Threads cut for commercial hose couplings.

Diaphragms best quality of rubber guaranteed to stand hard service. Diaphragms can be replaced by removing only four nuts and lifting off top section. These nuts are brass to prevent rusting fast to the bolts. Suction valve is metal, rubber faced, easily removable.

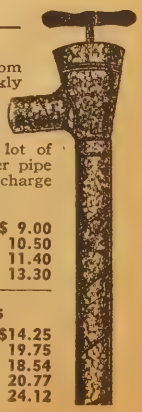
Waterways extra large, permitting an easy flow of liquid.

Hand lever wrought iron, reversible, enabling it to be used vertically or horizontally from either side or the back of the pump. Hand lever is furnished.

We recommend the use of foot valve or strainer with these pumps.

Number	Capacity Per Hour	Suction Hose	Price
K365	1800 Gal.	2½″	$23.50
K366	3500 Gal.	3″	28.00

Very Handy Suction Pumps



Especially suited for lifting muddy water from holes while leaks are being repaired and for quickly drying trenches, or excavations, manholes, valve boxes, etc., after rains or storms. Strong, extra heavy, spiral riveted, as illustrated, with single clapper valve and leather plunger. They lift a lot of water at every stroke and eaves trough or gutter pipe can be hung on the spout to carry off the discharge if desired.

Length Measured Over All

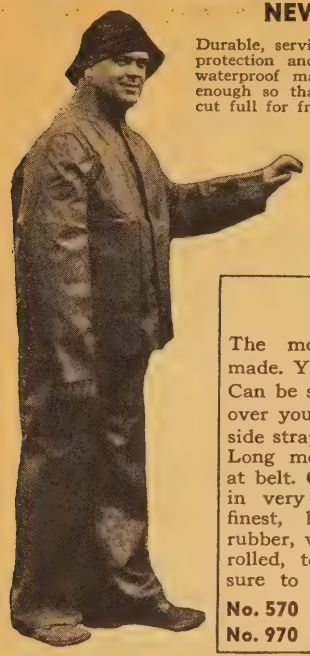
No. K361 3-inch diameter by 6 feet..... **$ 9.00**
No. K362 3-inch diameter by 7 feet..... **10.50**
No. K363 4-inch diameter by 6 feet..... **11.40**
No. K364 4-inch diameter by 7 feet..... **13.30**

Suction Hose for Diaphragm Pumps

2½ In.	No. K375 Length 10 ft.	$14.25
	No. K376 Length 15 ft.	19.75
3 In.	No. K377 Length 10 ft.	18.54
	No. K378 Length 12 ft.	20.77
	No. K379 Length 15 ft.	24.12

TELEGRAPH COLLECT—WE PAY ALL CHARGES

NEW! ALL RUBBER WATERPROOF SUIT



Durable, serviceable materials and special features make this suit "tops" in protection and comfort. Adapted to numerous uses due to its absolutely waterproof material of best processed rubber on friction sheeting. Roomy enough so that air can enter to keep wearer cool. Jacket 32 inches long, cut full for freedom of movement. Fly front with ball and socket fasteners. Set-in sleeves, narrow band collar, no pockets. Overall type pants made with shoulder straps and tie loops. A real value. Made in all sizes.

No. K393 All Rubber Suit **$8.95**
No. K394 Sou'western Hat **$1.25**

5% Discount for Cash or C.O.D. Orders

LEGGIN BOOTS

The most convenient boots ever made. You'll find them indispensable. Can be slipped on quickly and easily over your regular shoes. Special outside strap at knee to prevent sagging. Long model carries strap to attach at belt. Can be rolled up and stowed in very small space. Tops are of finest, best quality, light weight rubber, very flexible. Soles are heavy rolled, tough and long wearing. Be sure to specify size when ordering.

No. 570 Long Leggin Boots.... **$4.35**
No. 970 Short Leggin Boots.... **3.85**

YOU ARE WELCOME TO ORDER ANY ITEM IN THIS CATALOG FOR 30 DAYS FREE TRIAL

New Sewer Bootfoot Waders

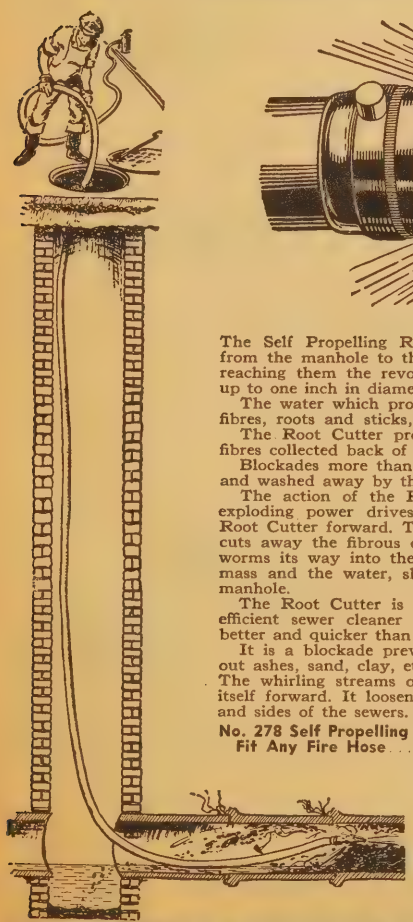
A real boon to the hard-working sewer man. Now you can work with comfort, protected from mud and slime. These rugged Sewer Bootfoot Waders are built for long, hard service under the worst conditions. Heavy black rubber boots are vulcanized to the pants by pressure-curing process. Non-skid, flexible, cleated soles for sure footing. Sturdy and reliable with reinforcements at all points of strain. Oversized sole and heel made like a cord tire with extra plies for more wear. Snag-resister toe, non-slip counter, no rubbing at heel.

Entire outfit completely waterproof. Pants reach chest for full protection. Strong, adjustable shoulder straps securely riveted to pants. Adjustable strap at back for wearing pants snugly. Reinforced at crotch with double ply at seam. Guaranteed absolutely waterproof. Specify size.

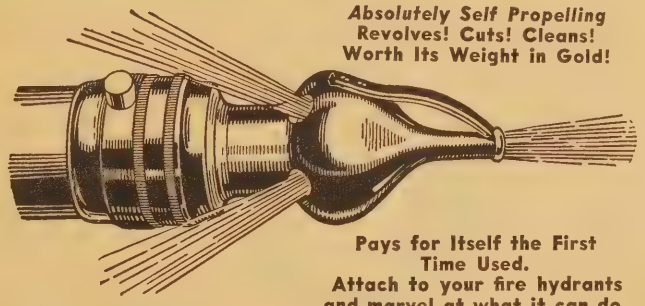
No. K399 Sewer Bootfoot Waders **$14.95**

5% Discount for Cash or C.O.D. Orders

CLEAN OUT YOUR SEWERS QUICKLY AND EFFECTIVELY WITH THIS SELF PROPELLING ROOT CUTTER —IT CLEANS AS IT CUTS AS IT CREEPS



Absolutely Self Propelling
Revolves! Cuts! Cleans!
Worth Its Weight in Gold!



Pays for Itself the First Time Used.
Attach to your fire hydrants and marvel at what it can do.

The Self Propelling Root Cutter is a simple, easily operated tool which travels from the manhole to the obstructing roots or sticks under its own power, and upon reaching them the revolving blade chops away the matted mass of roots or sticks, up to one inch in diameter.

The water which propels and revolves the Root Cutter washes away the loosened fibres, roots and sticks, and at the same time gives the sewer a thorough cleaning.

The Root Cutter propels itself right up to and through the roots and mass of fibres collected back of them.

Blockades more than three hundred feet from the sewer opening can be cut loose and washed away by the Root Cutter.

The action of the Root Cutter is similar to that of a sky-rocket. Rearwardly exploding power drives the rocket upward. Rearwardly driven water propels the Root Cutter forward. The Root Cutter rapidly revolves a sharp, heavy blade which cuts away the fibrous obstructions and the nozzle to which the Cutter is attached, worms its way into the stoppage. The forcible forward stream of water loosens the mass and the water, shooting backward from the rearward holes, drives it to the manhole.

The Root Cutter is much more than a mere chopper. It is an economical and efficient sewer cleaner as well. It removes blockades where no roots are present better and quicker than can be done in any other way.

It is a blockade preventative and a sewer or drain cleaner as well. It will clean out ashes, sand, clay, etc., from dirty sewers at the rate of about fifty feet an hour. The whirling streams of water scrub the top and sides of the drain as it propels itself forward. It loosens heavy cakes of grease which become attached to the tops and sides of the sewers.

No. 278 Self Propelling Root Cutter Threaded to Fit Any Fire Hose **$40.00**

Send us, by parcel post, any old 2½-inch fire hose coupling, so that we can accurately thread the Root Cutter to match and fit your thread. Or, if you can accurately give us the diameter, pitch and threads per inch, that will do, but it would be best to send the coupling.

WATERPROOF OILSKIN COAT

A fine, durable oilskin coat, doubly reinforced and double stitched throughout. Cut three-quarter length and made with two outside flap pockets. Corduroy lined collar, solid brass buckle fasteners, special storm fly front, inner sleeve windcuffs. Cut roomy and full to allow full use of the legs.

Coats priced especially low to make them available to everyone. Made in black only. Specify small, medium or large size when ordering.

No. 255 Oilskin Coat... **$3.95**

FOR QUICK SERVICE WIRE COLLECT. WE PAY ALL CHARGES

WATERPROOF OILSKIN HAT

Completely waterproof. Stiff crown and brim. Flannel lined and fitted with neck piece and chin strap. Ideal companion garment to the waterproof coat shown above. Made in black only. Sizes 6¾, 7, 7¼ and 7½.

No. 256 Oilskin Hat..... **95c**

WOOL LINED RUBBER MITTS

These mitts are wool-lined for warmth. Fabric is soft, flexible and long wearing. Will stand severe service. Strongly recommended.

No. 288 Rubber Mitts **$2.50**

For Quality, Service and Dependability, Order from General City Service Co.

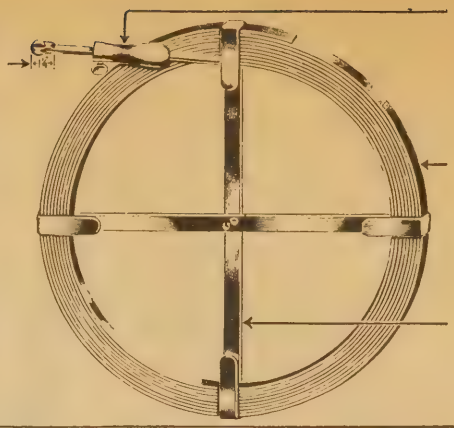
OIL TEMPERED SEWER ROD

The rod pictured here is the latest development in scientifically constructed sewer rods. It is made of the finest oil tempered steel 1/16 inch thick—*not too flexible and not too stiff*. Under test by sewer men, it has been pronounced the finest tool of its kind ever produced.

The head is so constructed that it can cut its way through a stoppage and roll over any offsets in the sewer pipe. It has the shortest shank of any rod head on the market. This feature enables it to roll around bends formerly impossible. Priced complete with head, handle and frame.

No. K309 1/2 x 1/16"		No. K310 3/4 x 1/16"	
25 feet	$ 6.13	25 feet	$ 7.33
50 feet	7.66	50 feet	9.46
75 feet	9.19	75 feet	11.46
100 feet	10.66	100 feet	13.52

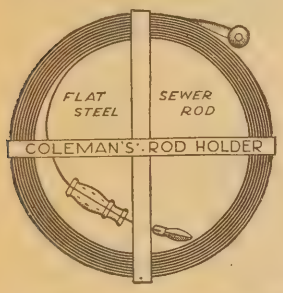
This is the shortest Mobile Sewer Rod Head on the market. It is made of brass, the roller revolves on a tempered steel rivet and the shank is riveted to the rod. Placed on a 1/2"x 1/16" Oil Tempered Rod, it will pass through a 90° bend in a 2" pipe.



5-Inch Cast Aluminum Handle that can be fastened at any place on the rod

The Finest Oil Tempered Steel that money can buy

This Hand Forged Frame is a great convenience and a time saver



Flexible Steel Waste Pipe Cleaner

Handy for cleaning small clogged up service pipes and waste pipes. Consists of 1/4-inch oil tempered fish tape of great flexibility which is placed in holder and arranged so that any length desired can be removed without the danger of all the tape unwinding. Holder made of flat steel bands, heavily galvanized, and acts as handle with which to grip and work the tape.

No. K321 Waste pipe cleaner, 25 feet long **$1.60**
No. K322 50 feet long **2.80**
No. K323 75 feet long **4.30**
No. K324 100 feet long **5.30**

YOU ARE WELCOME TO ORDER ANY ITEM IN THIS CATALOG FOR 30 DAYS FREE TRIAL

REVOLVING SEWER ROD HEADS

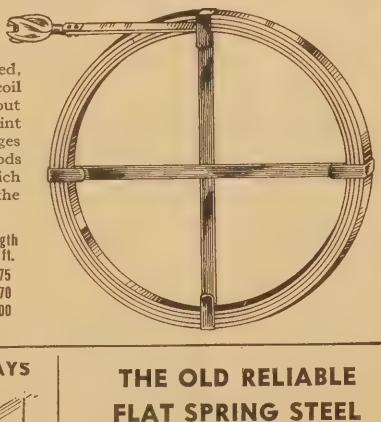
This is a flexible revolving solid roller ball head. Will roll forward and revolve sideways. This feature aids greatly in guiding rods around bends in sewers. Mention size of your rod when ordering.
No. K343 ..... **$2.44**

The only spiral sewer rod head on the market that has only one working part. Acts as an auger when pushed into a sewer pipe. Mention size of your rod when ordering.
No. K344 ..... **$2.22**

TEMPERED ROD

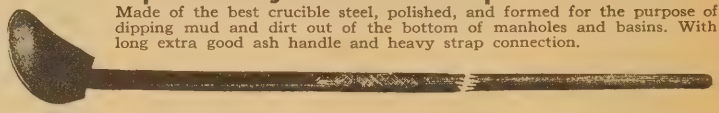
Made of a special oil tempered, flat spring, steel wire. Will coil as shown and will straighten out and lay flat in sewer. Spear point enables user to remove stoppages easily. We also equip these rods with an automatic holder which enables the user to handle the rod much more conveniently.

	Size, Inches	Length 50 ft.	Length 75 ft.	Length 100 ft.
No. K331	1/8x 3/4	6.30	7.50	8.75
No. K332	1/8x1 1/4	7.95	9.70	11.70
No. K333	1/8x1 1/2	10.75	13.50	16.00



Special Long Handle Sewer Spoons

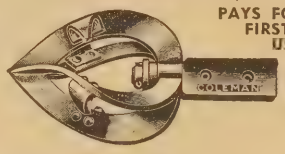
Made of the best crucible steel, polished, and formed for the purpose of dipping mud and dirt out of the bottom of manholes and basins. With long extra good ash handle and heavy strap connection.



Made of standard size, polished steel, with handle 8 feet long.
No. K320 Sewer Spoon. Each, only **$4.95**
Per Dozen, Less 10%

REVOLVING SPEAR POINTS

PAYS FOR ITSELF FIRST TIME USED



Nothing can equal this simple, low priced device, for cleaning clogged up drain and sewer pipes. Just bolt it to a sewer rod and it gets the rags, cloths, papers, string, etc., no matter how tightly packed or clogged. It surely does the work quicker and better than any other tool you ever saw.

The head is torpedo shaped and revolves on a shaft which can be readily fastened to rods.

When the rod is pulled back the paper, string and other matter are caught by the hooks and are withdrawn with the cleaner.

No. K329 For 3/4 and 1-1/4 in. Wood or Metal Sewer Rods. Each $3.00
No. K330 For 1-1/2 in. Wood or Metal Sewer Rods. Each $4.00

Sewer Cleaning Dipper

No handle. Threaded for 3/4-inch iron pipe handle. Heavy galvanized.
No. K349 Sewer Dipper **$2.59**

NEW! SNAKE NECK FOR SEWERS AND DRAINS

Bolt this to end of any flat steel sewer rod and you'll be surprised!

The head revolves, turns and as you jog and push, it just naturally BORES ITS WAY IN and cleans things up. No matter if it's an obstinate case of rags, strings, etc., the hooks take hold so you can withdraw them. It's easy with the new Snake Cleaner.

It will go around a 90° angle in a 4-inch or 6-inch sewer or drain.

The Revolving Steel Head is electrically welded to the spiral FLEXIBLE steel coil spring; it is very sturdy and will give years of service long after the low price has been forgotten.

Every sewer department needs a Snake Cleaner. It will save a lot of hard work and time. We will take it back after you try it if you don't think so. The price is so low it usually saves its cost on the first job.

No. K340 New Snake Cleaner, 10 inches overall length **$6.15**

LOWEST PRICES ALWAYS

If during the life of this catalog, for any reason whatever, we reduce prices on any merchandise shown in this book, your order will be filled at the new lower price.

THE OLD RELIABLE FLAT SPRING STEEL SEWER ROD

LIGHTER WEIGHTS for smaller sewers, drains and pipes. Same Flexible Steel, UNBREAKABLE, heat treated. Easy to use and serviceable for years.

No.	Size, Inches	Length 50 ft.	Length 75 ft.	Length 100 ft.
No. K318	1/8x 3/4	$2.30	$3.50	$4.75
No. K319	1/8x1 1/4	3.95	5.70	7.70

For cleaning all sizes of Municipal Sewers and stopped and clogged up drains and pipes, these rods are hard to beat. Often they clear away and break the obstruction in a few minutes.

Made of flat spring steel, specially fabricated and heat treated to our own specifications.

They will not crystallize and snap; with use they become more and more flexible and tough. We have been selling these rods for years and they have proved very satisfactory. We recommend them highly as a good, serviceable product.

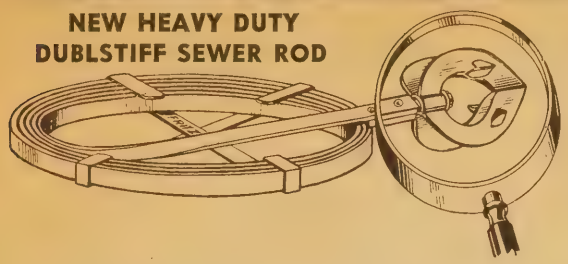
When pushed and worked back and forth it will work its way through an obstruction and break it down; flushing does the rest.

The Municipal Sizes are heavier but easy to handle, all lengths 1 1/2 inch wide.

No. K312 Municipal Rod, 50 feet ..... **$ 6.75**
No. K313 Municipal Rod, 75 feet **9.50**
No. K314 Municipal Rod, 100 feet **12.00**

Take Advantage of General's 30-day Free Trial Offer — Pay No Money Until Convinced

NEW HEAVY DUTY DUBLSTIFF SEWER ROD



Highest Grade Oil Tempered Steel

The very finest, toughest and most durable sewer rod. Made of the highest grade genuine OIL TEMPERED and heat treated spring steel, ⅛" thick. Will not curl after constant use. They straighten out and lay flat in the sewer. Yet so flexible they are coiled as shown above and can be carried in a holder. Impossible for this rod to kink.

This oil tempered sewer rod is a super service rod made of the finest spring steel money can buy. A heavy duty rod widely used in hundreds of the larger cities because of its ability to stand hard frequent service.

Nothing can equal this combination rod and head for opening and cleaning clogged drain and sewer pipes.

Just push it into a stopped up pipe and it brings out twine, paper, rags, etc., no matter how tightly packed.

The head is torpedo shaped and revolves on a shaft which is securely bolted to the rod, but is easily taken off. When the rod is pulled out, the hooks in the blades of the cleaner, catch paper, string and other solid matter and bring them all out.

Hand forged steel holder is a convenient time saver. You can pull off any length of rod desired without danger of all the rod unreeling. The holder is a practical handle with which to grip and work the rod.

Heavy Duty Dublstiff Sewer Rod, 1¼" width is capable of handling municipal rodding jobs which would require larger size standard grade rod.

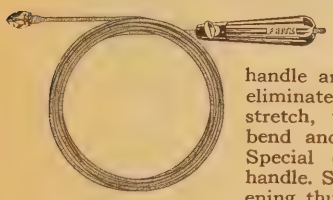
Heavy Duty Dublstiff Sewer Rod With Revolving Sewer Cleaner and Holder, complete as shown above—

No.	Size Inches	Length 25 ft.	Length 50 ft.	Length 75 ft.	Length 100 ft.
K261	⅛x ¾	$7.70	$ 9.90	$12.10	$14.30
K262	⅛x1	8.50	11.55	13.45	15.40
K263	⅞x1¼	9.35	12.63	16.50	20.35

Heavy Duty Dublstiff Sewer Rod Only—

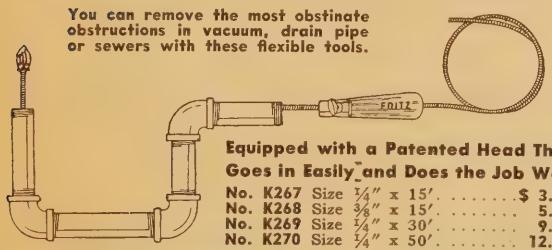
No.	Size Inches	Length 25 ft.	Length 50 ft.	Length 75 ft.	Length 100 ft.
K264	⅛x ¾	$3.70	$5.65	$ 7.72	$ 9.75
K265	⅛x1	4.50	7.25	9.00	10.73
K266	⅞x1¼	5.25	8.25	11.60	15.25

Made of Swedish Steel Music Wire



These flexible coil wire sewer and pipe augers with special grip handle are wound very tightly to eliminate buckling. Will not stretch, will turn any angle or bend and will go through traps. Special quick action slide grip handle. Screw the rod in by tightening thumb bolt on handle.

You can remove the most obstinate obstructions in vacuum, drain pipe or sewers with these flexible tools.



Equipped with a Patented Head That Goes in Easily and Does the Job Well

No. K267 Size ¼" x 15' ..... $ 3.50
No. K268 Size ⅜" x 15' 5.00
No. K269 Size ¼" x 30' 9.00
No. K270 Size ¼" x 50' 12.00

NEW SUPER Service Auger FOR CLOSETS

Made of Finest Grade Music Wire

A practical tool for instantly removing stoppages from water closets, drain pipes, etc. It not only does the work quicker and more efficiently but is made to last for years under hard service.

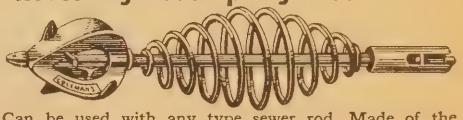
The flexible coil goes through any closet. By turning handle to the right stoppage is caught and by holding down on body and pulling on handle stoppage is brought out to opening. The corkscrew and removable cone wire catch all obstructions.

The coil spring is wound of the very highest grade of 120 gauge music wire. The Super Service Auger will outlast several ordinary augers. Special corkscrew tip catches and removes all stoppages.

The body is of ½" galvanized rustproof pipe with comfortable grip and rubber bumper to protect bowl from scratches. Length, 3 feet.

No. K250. New Super Service Flexible Music Wire Closet Auger, each, only **$5.50**

Revolving Head Spring Root Cutter



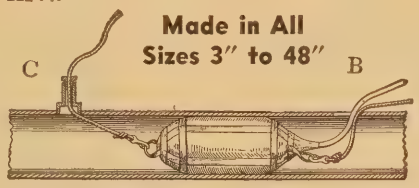
Can be used with any type sewer rod. Made of the best material and formed or shaped to make it easy to move any kind of stoppage. No. K245 Root Cutter.

4" size ..... $ 6.50
6" size 8.50
8" size 10.00

5% DISCOUNT FOR CASH OR C.O.D. ORDERS

CYLINDRICAL STOPPERS FOR SEWERS AND WATER MAINS

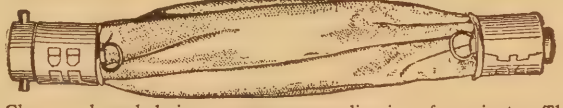
The finest device on the market to close up a sewer or water main in order to carry on repair work. Made in all sizes from 3 inches to 48 inches. Order No. K244.



Made in All Sizes 3" to 48"

3"	$ 6.00	15"	$30.00
4"	8.00	16"	32.00
5"	10.00	18"	36.00
6"	12.00	20"	40.00
7"	14.00	22"	44.00
8"	16.00	24"	48.00
9"	18.00	30"	60.00
10"	20.00	36"	72.00
12"	24.00	42"	84.00
14"	28.00	48"	96.00

HYDRAULIC SEWER FLUSHER
A Modern Tool for Cleaning Any Size Sewer



Used by More Than 1500 Cities

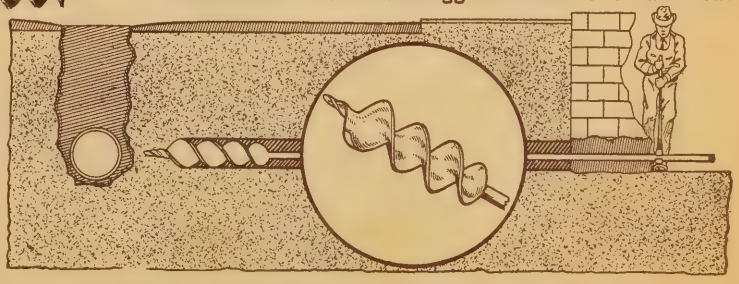
Clears a clogged drain or opens a sewer line in a few minutes. The usual method is to connect the bag to the flushing hose, place it in sewer, pushing it forward to the point of obstruction and then turning on the water. The heavy bag expands, conforming to the shape of the sewer and making a watertight seal. The full hydrant pressure is shot from the nozzle against the obstructing matter. In a few minutes the force of the water bursts through the accumulation and washes it down the sewer.

The flusher consists of a heavy expanding bag fitted with a threaded hose connection at one end and a special nozzle at the other. Be sure to specify size and thread when ordering. Other sizes than those listed can be furnished.

Catalog No.	17	20	22	24	25	26	27	29	30
Sewer Size	6"	8"	9"	10"	12"	12"	14"	16"	18"
Hose Used	2½"	2½"	2½"	2½"	2"	2½"	2½"	2½"	2½"
Price, Each	$25.76	$37.64	$40.00	$46.80	$48.00	$50.00	$65.56	$75.00	$83.20

FOR QUICK SERVICE WIRE COLLECT. WE PAY ALL CHARGES

With This New Underground Auger You Can Lay More Pipe in 15 Minutes Than a Ditch Digger Can in Over an Hour



This new auger will bore underground through any type of sand or dirt for laying pipes under lawns, streets, etc. Bores straight clean holes quickly and at very low cost. Saves the expense and delay of trench digging and tearing up pavement. A wonderful time and money saving tool for every municipal department for laying services from house to main as shown at right. Made for boring underground to lay all sizes of pipe.

Made with a double twist, approximately 14" in length. The edges of the twist are ground thin to provide ample room for earth and to lessen the weight. The shaft is heavy and the shank is threaded to fit pipe couplings. Thus the auger can be lengthened to suit requirements.

Special Note: When ordering, order an auger *one* size larger than the size pipe you want to lay. For example, if you want to lay 2" pipe, order a 3" auger.

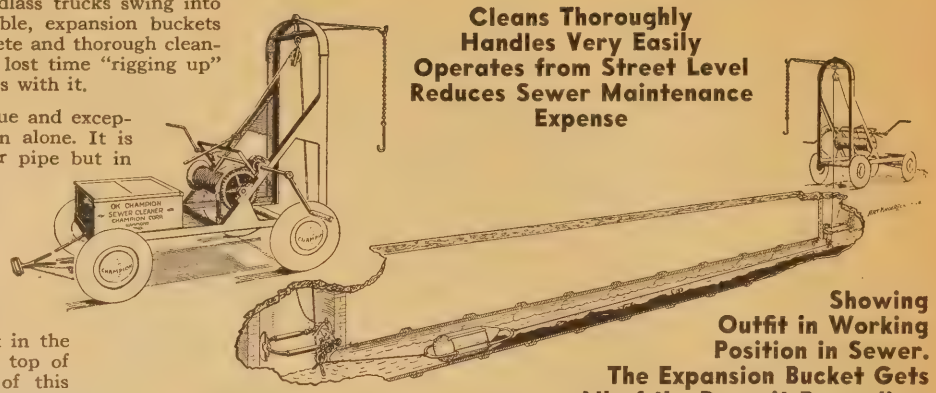
Catalog No.	K271	K272	K273	K274	K275	K276	K277	K278	K279	K280	K281	K282	K283	K284	K285
Auger Size	1"	1¼"	1½"	1¾"	2"	2¼"	2½"	2¾"	3"	3¼"	3½"	3¾"	4"	4½"	6"
Price, Each	$7.70	$8.30	$8.95	$9.60	$12.60	$13.45	$13.80	$14.70	$15.75	$17.95	$19.90	$22.80	$22.97	$35.80	$67.40

THE FAMOUS O.K. CHAMPION SEWER CLEANER SAVES ITS COST ON THE FIRST JOB

Positive cleaning—minimum costs—those are the results every sewer superintendent wants. And in each of the many features of the O.K. Champion Sewer Cleaner, he finds important contributions towards those results. Powerful, easily transportable windlass trucks swing into action on a moment's notice. Patented, reversible, expansion buckets and auxiliary accessories directly result in complete and thorough cleaning—no matter how serious the obstruction. No lost time "rigging up" or "digging up" with the heavy expense that goes with it.

One point stands out pre-eminently as a unique and exceptionally desirable feature of the O.K. Champion alone. It is the one machine that not only cleans the sewer pipe but in the same single operation also automatically *lifts* the dirt *out* of the sewer *on to* the street. This must be done eventually with any system, but with the O.K. Champion alone, it is done at once. Dirt, roots, etc., are handled only once. They are not pushed ahead for later removal—when the bucket grabs them, they come out. The O.K. Champion Expansion Bucket makes a complete journey with its load from the point in the sewer where it has taken the dirt, right to the top of the street where it empties. The advantages of this method over any other is immediately obvious and has been the deciding factor in the selection of the O.K. Champion by hundreds of cities and towns.

Your cleaning crew goes about its work with no interference to traffic. Block after block is scoured clean as a whistle and your men move on to the next intersection. It's almost unbelievable how much is accomplished in a day's time until one has experienced the O.K. Champion's possibilities.



Cleans Thoroughly
Handles Very Easily
Operates from Street Level
Reduces Sewer Maintenance Expense

Showing Outfit in Working Position in Sewer. The Expansion Bucket Gets All of the Deposit Regardless of the Degree of the Congestion.

Make a 30-Day No-Obligation Test of an O. K. Champion

Let us send you an O.K. Champion Sewer Cleaning outfit on 30-Days Free Trial and Approval so that you may judge its performance and its value to your city without risking one penny of your money. We claim the outfit pays for itself on the first job and we'd like you to prove it to yourself before buying.

5% Discount for Cash or C.O.D. Orders

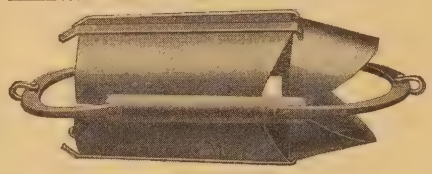
Complete Outfit of Parts Furnished

No. K426. All the equipment listed below, which includes a full set of all size buckets for all size sewers **$748.00**
2 Steel Trucks with hoist windlass and swinging boom.
350 feet 3/8-in. Guide Cable.
2 Steel Cables 350 ft. long, 19 wires hemp center.
2 O. K. Champion Manhole Guide Wheels.
1 6-in. Expansion Bucket for 8-in. sewer.
1 8-in. Expansion Bucket for 10-in. and 12-in. sewer.
1 10-in. Expansion Bucket for 12-in. sewer.
1 12-in. Expansion Bucket for 15-in. sewer.
1 15-in. Expansion Bucket for 18-in. sewer or larger.
2 Pulley Blocks for Cable on Truck.
2 Swinging Boom Chains and Hooks.
2 Short Hand Books for manipulating buckets.
2 4-ft. Steel Utility Hooks.
1 10-ft. Manhole Pike Pole.
1 Root Remover.
1 Steel Tool Box.
350 feet Special Sewer Rods, jointed.
300 feet 3/16" Galvanized Cable with Drum.

No. K427. All the above with 6", 8", 10" and 12" expanding buckets only. Cleans up to 15" sewers **$698.00**

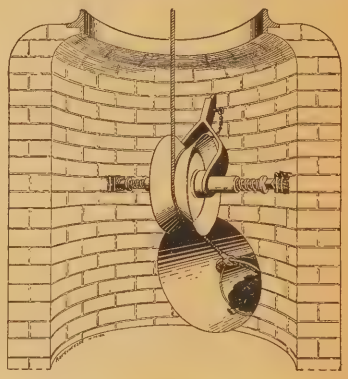
No. K428. All the above with the 6" and 8" expanding buckets only. Cleans up to 12" sewers **$664.00**

YOU ARE WELCOME TO ORDER ANY ITEM IN THIS CATALOG FOR 30 DAYS FREE TRIAL



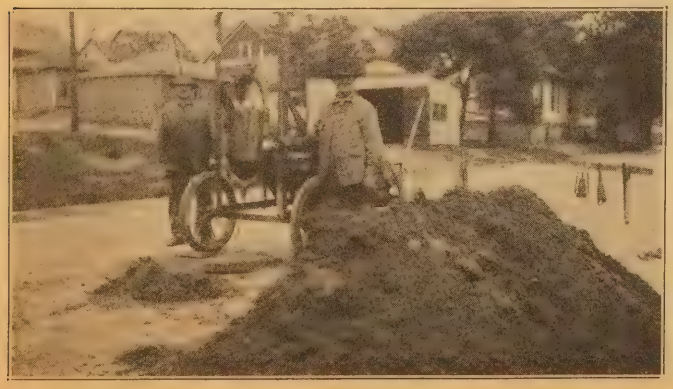
O. K. Champion Wonder Bucket Scraper

Years of experiment and experience have gone into the designing and perfecting of the Champion Expansion Bucket. It is made of rolled steel plates and is fitted with heavy, hinged steel jaws. Side plates, to which these jaws are fulcrumed, control the expansion and contraction of the bucket and, at the same time, the opening and closing of the jaws. These are sharpened that they may more easily cut into the deposit in the sewer channel. At a forward pull of the cable, they open nearly in line with the body of the bucket, which also expands. As soon as the load is taken up, the cable pull is reversed. Immediately the jaws close and the bucket contracts. The jaws are close fitting when closed and retain the load taken up, allowing only the water to escape. This feature is especially appreciated by the men on the job who, in the past, have experienced the disagreeableness of handling a wet load. To prevent excess wear, the bucket is fitted top and bottom with steel running plates.



O. K. Champion Guide Wheel

This device automatically guides the filled bucket out of the sewer tile and up through the manhole to the street above. It is very light and easy to install to the side of the manhole walls. The extension brace holds it rigid when the hard pull is made with a full bucket coming out of the tile. The work of cleaning a sewer line proceeds rapidly and a surprising distance is covered in a single day.



For Smaller Jobs You Can't Beat the O. K. Champion Junior Sewer Cleaner

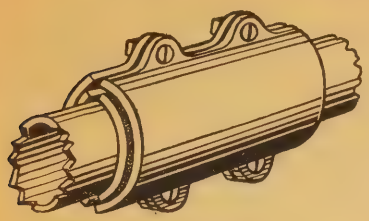
Where a limited amount of actual work needs to be done, the O.K. Champion Junior Cleaner often fills a definite need. The method of operation is similar to the standard cleaner described above, but its capabilities and versatility are necessarily limited by its smaller size and modified design. Many small communities, however, find it a most necessary part of the streets and sewers department that can be included in almost any budget because of its very low cost.

The outfit consists of two O.K. Champion windlasses and a total of 700 feet of 3/8" steel cable—350 feet to each reel. Balance of the equipment includes two Manhole Guide Wheels, two steel hand hooks, two steel utility hooks, one 10' pike pole, one 6" bucket for 8" sewer, one 8" bucket for 10" sewer or larger and 350 feet of special wood sewer rods, jointed.

No. K373. O.K. Champion Junior Sewer Cleaning Outfit, including all of the above **$444.50**

FOR QUICK SERVICE WIRE COLLECT. WE PAY ALL CHARGES

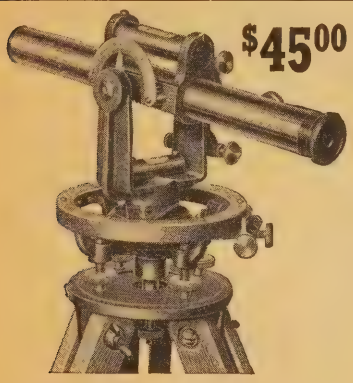
PERMANENT PIPE MENDERS



For Iron, Steel, Lead, Brass Pipe All Sizes, ½ to 1 inch

Just slip over the pipe at the leak and tighten the screws with an ordinary screw driver. A *permanent* repair and you can forget about the damaged pipe. These pipe menders come with both rubber and asbestos packing. You can use either. Both make equally tight joints. Galvanized finish. Be prepared for leaks. With these menders you can make permanent repairs in a few minutes time—at a few cents cost—without even shutting off the water.

No. K237 Permanent Pipe Menders, fit all sizes ½ to 1" Pipe, per dozen.... **$2.95**



$45.00

ALL THE FEATURES OF A $100 TRANSIT-LEVEL AT LESS THAN HALF THE COST

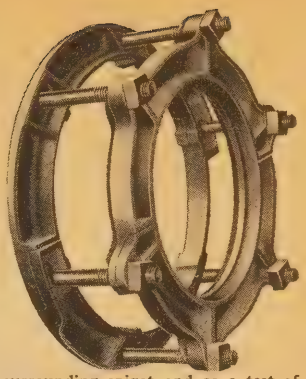
A simple and complete Combination Instrument for leveling and plumbing from the same set-up. It can be used for running precise levels as well as for taking vertical angles. Equipped with a vertical arc for reading vertical angles.

This instrument can be used to advantage in laying gas mains and pipes, sewer pipe and trenches, curb lines, street and alley grades and pavements. Also for laying out building lines, drain tiles, etc., and for laying out the foundations for buildings, tanks, machinery, engines, dynamos, etc., and making plans of a city's water system, including the location of mains and catch basins. One of the most practical instruments on the market for municipal use.

No. K249 Transit-Level **$45.00**

A NEW LOW-PRICED CLAMP

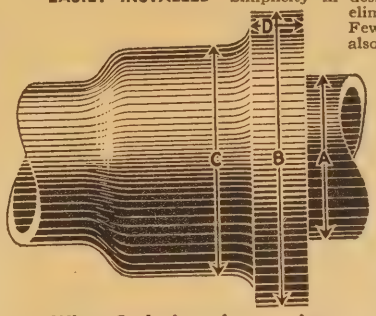
Stop Bell and Spigot Joint Leaks



A new design which provides a most economical method of permanently repairing bell and spigot leaks in water and gas mains. Construction of clamp and gasket assures an efficient and positive seal that is not only flexible but absolutely leak-proof under all conditions. Made in all standard sizes.

PERMANENT—The rigidity of this clamp and the sturdiness of its construction embodies every possible assurance of permanent repair. It is built for pressures greatly in excess of any that will be encountered. No adjustments are necessary. The clamp is tailored to the joint. All bolts are steel, rustproof cadmium plated.

EASILY INSTALLED—Simplicity in design minimizes number of parts and eliminates the necessity of adjustments. Fewer parts, especially in the larger sizes, also facilitate and speed up installation.



When Ordering give us pipe dimensions A-B-C-D as shown above

Extremely heavy construction of sections to prevent any possible distortion in drawing up. Hand sledged for even bearing completely surrounding spigot and as a test of perfect annealing.

ECONOMICAL—Performance has proven the economy of this clamp. The ease of application reduces installation cost to a minimum and the permanence of the installation eliminates maintenance expense.

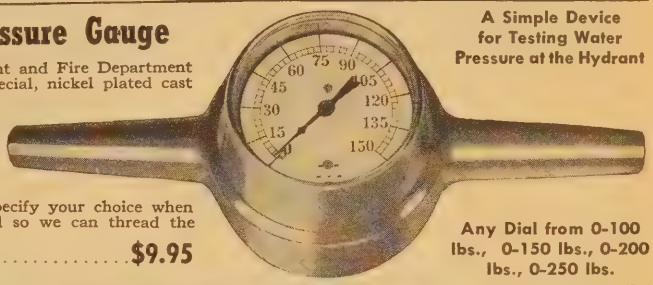
Paranite rubber gaskets, factory sized to avoid cutting and fitting for installation.

Order No. K246 and give us pipe dimensions as shown at left

Cast Iron Pipe Sizes	3"	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"
Weight, Lbs.	14½	16	24½	28	33½	43½	63½	91	119	146	195
Price, Each	$3.28	3.57	4.90	8.67	11.40	13.23	19.38	26.16	33.39	49.62	56.70

New Fire Hydrant Pressure Gauge

A Simple Device for Testing Water Pressure at the Hydrant



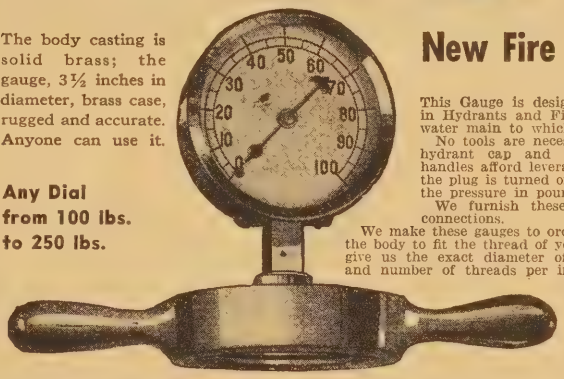
Designed especially for Water Department and Fire Department Inspectors. The gauge is built into a special, nickel plated cast brass hydrant cap. The non-breakable crystal is flush with the face of the cap.

To operate, just remove the hydrant cap and screw on the gauge. The dial will instantly show the water pressure in pounds on the hydrant and main. Standard dial graduations are 0-100 lbs., 0-150 lbs, 0-200 lbs. and 0-300 lbs. Specify your choice when ordering. Also specify your 2½" thread so we can thread the gauge to fit.

No. 287 Fire Hydrant Pressure Gauge..... **$9.95**

Any Dial from 0-100 lbs., 0-150 lbs., 0-200 lbs., 0-250 lbs.

The body casting is solid brass; the gauge, 3½ inches in diameter, brass case, rugged and accurate. Anyone can use it.



Any Dial from 100 lbs. to 250 lbs.

New Fire Hydrant Gauge

This Gauge is designed to show the water pressure in Hydrants and Fire Plugs, or the pressure in the water main to which the plug is connected.

No tools are necessary to attach, just take off the hydrant cap and screw on the gauge. The two handles afford leverage like a spanner wrench. When the plug is turned on, the gauge dial shows instantly the pressure in pounds in the hydrant on the main.

We furnish these only for 2 1/2 inch fire hose connections.

We make these gauges to order only, because we must thread the body to fit the thread of your fire hydrants. Unless you can give us the exact diameter of male thread on your hydrants and number of threads per inch you had better send us, by parcel post, an old hose coupling to go by; that is usually best and safest.

No. K248 Fire Hydrant Pressure Gauge complete with case. Give pressure dial wanted **$12.50**

Patent Water Pressure Controller

When used on risers, shutting off of branch stop-cocks, blowing out of pipes, waiting for pipes to drain out, or using plugs is avoided.

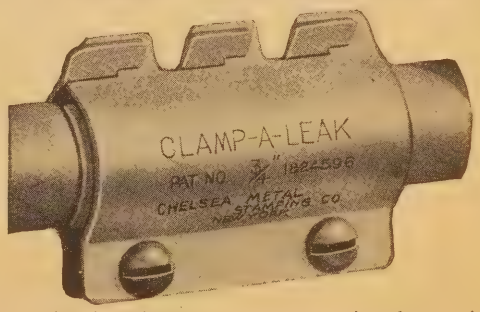
To repair leak in service pipe, or to put on stop-cock under pressure, just cut the pipe; one stream of water similar to that of a hose will escape straight, as the bore of the pipe is not reduced by a faucet, etc. The stream will be from 1 to 3 feet long. You cannot get wet as the water does not scatter when it leaves the pipe, only when it strikes an object or cellar bottom. You insert the controller into the pipe at once and give wing-nut three turns which stops the flow. You will experience no difficulty in doing this, as the washers are smaller than the bore of the pipe. After having cut the pipe and controlled the pressure (the whole operation having taken only a few seconds), slip a round water-way stop-cock over the stem of the Controller and join to the pipe; then release the wing-nut, pull Controller out through stop-cock and shut stop-cock off, and join other end of pipe to stop-cock. Supplied complete with washers for ½", ⅝", ¾", 1" and 1¼" pipe. Equally useful on copper, brass or other pipe of above sizes.

No. K236 Pressure Controller, complete, each..... **$5.25**

5% DISCOUNT FOR CASH OR C.O.D. ORDERS

EMERGENCY LEAK CLAMPS

STOP LEAKS IMMEDIATELY—ALWAYS READY FOR INSTANT USE



Emergency pipe clamp for use on water, steam, air and ammonia pipes, etc. Designed for use under any conditions on either high or low pressures and is so constructed that it can be used in close quarters. Simple to assemble. Packed complete with rubber packing and bolts. Not sold in less than ¼ dozen or ½ dozen lots of any one size, depending on size of unit package shown below.

Catalog No.	K251	K252	K253	K254	K255	K256	K257	K258	K259	K260
Size pipe	½"	¾"	1"	1¼"	1½"	2"	2½"	2½"	3"	3"
Length	2½"	2¾"	3½"	4"	4"	4"	3"	5"	3"	5"
Package	6	6	6	3	3	3	3	3	3	3
Price, each	$0.25	$0.35	$0.50	$0.65	$0.80	$1.00	$1.25	$1.50	$1.75	$2.00

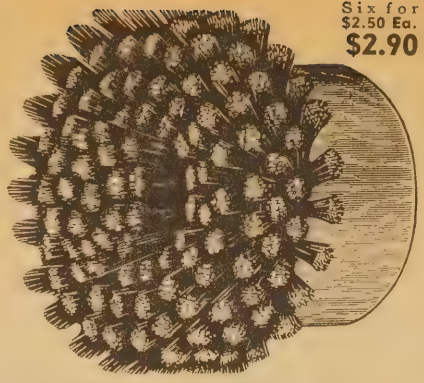
ROTARY METER BRUSH

Just right for cleaning out scale, etc., from disc chambers and the inside of meter casings. Notice how the all STEEL tufts of bristles are serrated and staggered for the job, with a projecting center and six surrounding rows in all 128 bunches or tufts of steel bristles set securely in a hardwood block base.

The block or base has a lead core so it can easily be attached to the spindle or shaft of any electric grinder.

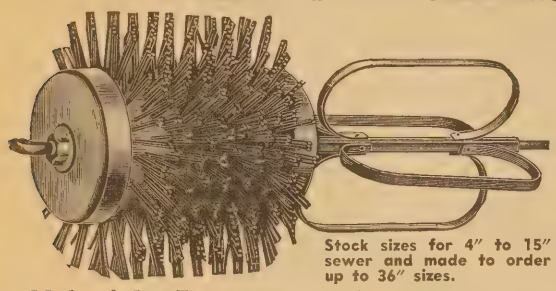
Many water superintendents find it DOES SO MUCH and COSTS SO LITTLE that they order 6 to 12 at a time. Just try one in your meter shop and you'll come back for more.

No. K293 Rotary Meter Brushes, each **$2.90**



Six for $2.50 Ea.
$2.90

POWERFUL SEWER CLEANING BRUSHES



Stock sizes for 4" to 15" sewer and made to order up to 36" sizes.

This special brush is very successful in dragging sewers. They do not injure the laterals if same have been placed inside of the sewer, where scrapers, etc., cause a lot of trouble.

No chance of this brush getting caught in the sewer as the wire is flexible and will give under the strain.

Made of flat TEMPERED steel wire with steel protected ends and equipped with hooks for fastening on a rope or cable.

As a simple sewer sweeper and cleaner, it can't be beat. Customers that try them get such good results they order more.

No. K301	4"	Diam.	**$4.50**	**No. K305**	10" Diam. **$16.00**
No. K302	5"	Diam.	**6.00**	**No. K306**	12" Diam. **20.00**
No. K303	6"	Diam.	**7.50**	**No. K307**	15" Diam. **24.00**
No. K304	8"	Diam.	**13.50**		

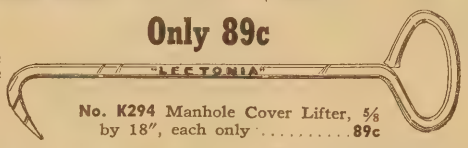
5% Discount for Cash or C.O.D. Orders

MADE TO ORDER ALSO, ANY SIZE DESIRED, PER INCH DIAMETER.. $1.90

Manhole Cover Lifter

Only 89c

A handy hook lifter for raising manhole lids. Many municipal departments are using them. It's easy to lift manhole lids with this hook lifter. Made of a good grade of octagon steel, painted black. Point is ½" wide and carefully tempered.



No. K294 Manhole Cover Lifter, ⅝ by 18", each only **89c**

Worm Lock Covers and Lids

Worm lock raises lid as meter is unlocked—lid fits in any position—will not drop in place until it is locked. Bronze washers separate worm and lid and allow easy operation under all conditions. For use on bodies of ⅛-in. and 20-in. inside diameter. Diameter of lid, 13 in. Height of cover throat, 4 in.

No. K300 Worm Lock Cover and Lid.. **$2.95**

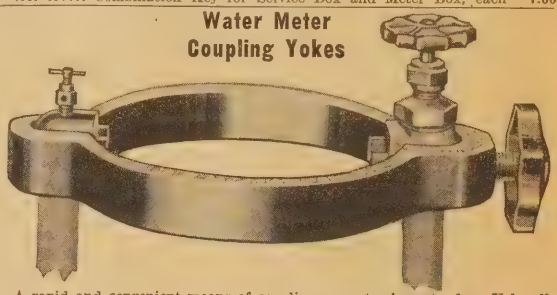
5% DISCOUNT FOR CASH OR C. O. D.

Unbreakable Service and Meter Box Keys

The key you've been looking for. Not cast iron. Will not break in service. Made of malleable iron, extra strong. All the trouble you've had with broken keys is all over if you use this unbreakable key. Fits five corner bolt heads on service boxes and meter boxes. For **No. K440** size the bolt head measures 1 in. from flat side to opposite corner. For **No. K441** size the bolt head measures 3/4 in. from flat side to opposite corner.

No. K439. Service Box Key, each	$ .75
No. K440. Meter Box Key, each	.75
No. K441. Combination Key for Service Box and Meter Box, each	1.00

Water Meter Coupling Yokes



A rapid and convenient means of coupling up meter in meter box. Yoke ells are screwed on riser pipes and frame dropped in place. Turning the handwheel tightens or loosens meter. No tools required. Meter couplings eliminated. With Type No. 2 valve may be used instead of curb cock and service box eliminated. Outlet test cock determines whether meter will register on flow through 1/8 in. orifice. Only four parts—gray iron ells, frame, handwheel, spacer clamp. Gaskets cannot drop out when removing meter. Slide adjustment provides an expansion joint in service line. When ordering specify whether inlet and outlet are desired with inside iron pipe thread or wth flared fittings for copper pipe.

Catalog No.	4A	4B	4C	4D
Meter Size	⅝"	⅝"x¾"	¾"	1"
Inlet and outlet inside iron pipe thread.	$2.80	$2.80	$3.35	$5.70
Inlet, flared fitting for copper pipe and outlet inside iron pipe thread	3.00	3.00	3.55	6.20
Inlet and outlet flared fittings for copper pipe	3.30	3.30	3.85	6.70

Nos. 475-477

Nos. 500-501-503

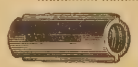
Nos. 580-581-583

Nos. 490-491

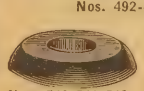
Nos. 480-481

Nos. 486-487

Nos. 492-493



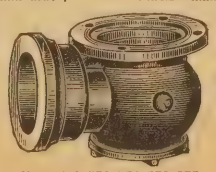
Nos. 510-511-513



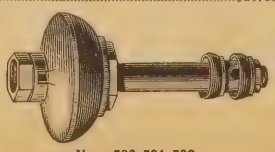
Nos. 540-541-543

Nos. 599-604

Nos. 560-561-563



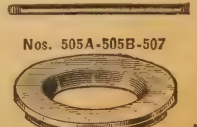
Nos. 569-570-571-573-575



Nos. 530-531-533

Nos. 610-611-614

Nos. 620-621-624



Nos. 505A-505B-507

Nos. 520-521-523

Nos. 589-592-594

Replacement Parts for Nos. 2A, 2, 3, Eclipse Fire Hydrants

Cast Iron Extension Pieces
(Complete with Gaskets and Bolts)

No. 475—To refit No. 2 Hydrant (6 in. long). Each....$11.00
For each additional 6 in., add $1.50 to cost.
No. 477—To refit No. 3 Hydrant (6 in. long). Each . 22.00
For each additional 6 in., add $1.95 to cost.
Specify length desired, from 6 in. on. (Operating rod must also be lengthened.)

Iron Stock with Brass Nozzle and Iron Cap
(With Gaskets and Bolts)

No. 480—For No. 2 Fire Hydrant, 4-ft. bury with 1 2-in. Nozzle. Each $22.00
Add or deduct from cost, $1.00 per ft. of bury.
For two 2-in. Nozzles, add $4.00 to cost.
For one 2-1/2-in. Nozzle, add $1.75 to cost.
For two 2-1/2-in. Nozzles, add $7.50 to cost.
No. 481—For No. 3 Fire Hydrant, 5-ft. bury, with 1 2-1/2-in. Nozzle. Each 46.20
With 2 2-1/2-in. Nozzles. Each..... 50.60
For each Nozzle and Cap not required, deduct their respective prices.

Cast Iron Top Stock (Complete with Gaskets and Bolts)

No. 486—For No. 1-1/4-in. and 1-1/2-in. No. 2A Fire Hydrant. Each $4.15
No. 487—For No. 2 Fire Hydrant. Each 6.00
If Bolts are not desired, deduct 24c from cost.

Fire Hydrant Handle

No. 490—For 1-1/4-in. No. 2A Hydrant $0.70
No. 491—For 1-1/2-in. No. 2A Hydrant ..... .70

Fire Hydrant Wrench

No. 492—For No. 2 Hydrant $1.10
No. 493—For No. 3 Hydrant 1.10

Bronze Top Screw

No. 500—To refit 1-1/4 or 1-1/2-in. No. 2A Fire Hydrant. Each $3.00
No. 501—To refit No. 2 Fire Hydrant. Each 3.85
No. 503—To refit No. 3 Fire Hydrant. Each..... 6.00

Operating Rod

Always specify depth of bury of hydrant from pavement line to center of inlet.
No. 505A—To refit 1-1/4 or 1-1/2-in. No. 2A Fire Hydrant, 5-ft. bury. Each $1.10
No. 505B—To refit No. 2 Fire Hydrant, 5-ft. bury. Each 1.10
Add or deduct 8c per ft. from above costs for differences in length.
No. 507—To refit No. 3 Fire Hydrant, 5-ft. bury. Each 2.40
Add or deduct 16c per ft. from above costs for differences in length.

Bronze Top Connection Nut

No. 510—To refit 1-1/4 or 1-1/2-in. No. 2A Fire Hydrant. Each $3.00
No. 511—To refit No. 2 Fire Hydrant. Each..... 3.85
No. 513—To refit No. 3 Fire Hydrant. Each 6.00

Bronze Seat Ring

No. 520—To refit 1-1/4 or 1-1/2-in. No. 2A Fire Hydrant. Each $2.75
No. 521—To refit No. 2 Fire Hydrant. Each 3.85
No. 523—To refit No. 3 Fire Hydrant. Each 5.00

Plunger Complete

No. 530—To refit 1-1/4 or 1-1/2-in. No. 2A Fire Hydrant. Each $6.00
No. 531—To refit No. 2 Fire Hydrant. Each..... 7.70
No. 533—To refit No. 3 Fire Hydrant. Each 9.90

Rubber Seat Washer for Plunger

No. 540—To refit 1-1/4 or 1-1/2-in. No. 2A Fire Hydrant. Each $0.50
No. 541—To refit No. 2 Fire Hydrant. Each ..... .55
No. 543—To refit No. 3 Fire Hydrant. Each 1.85

Plunger Cup Washer (Two to Plunger)

No. 560—To refit 1-1/4 or 1-1/2-in. No. 2A Fire Hydrant. Each $0.09
No. 561—To refit No. 2 Fire Hydrant. Each ..... .06
No. 563—To refit No. 3 Fire Hydrant. Each ..... .12

Iron Bottom
(Complete with Gasket, Bolts and Bronze Waste Tube)

No. 569—To fit 1-1/4-in. Pipe (No. 2A Hydrant). Each $10.45
No. 570—To fit 1-1/2-in. Pipe (No. 2A Hydrant). Each $10.45
No. 571—To fit 2-in. Pipe (No. 2 Hydrant). Each..... 12.50
No. 573—To fit 4-in. Pipe (No. 3 Hydrant). Each..... 18.70
No. 575—To fit 6-in. Pipe (No. 3 Hydrant). Each 20.90
For Standard Flanged Inlet Connection, Faced and Drilled, add $2.50 to cost.
For Companion Flange, add $4.00 to cost.
Specify Style of Inlet when ordering.

Iron Top Cap (Complete with Gasket and Bolts)

No. 580—To refit 1-1/4 or 1-1/2-in. No. 2A Fire Hydrant. Each $2.35
No. 581—To refit No. 2 Fire Hydrant. Each 2.35
No. 583—To refit No. 3 Fire Hydrant. Each..... 4.00

Iron Nozzle Cap
(Complete with Chain and Gasket) (Threaded to Order)

No. 589—To fit 1-1/4-in. Nozzle. Each..... $0.90
No. 590—To fit 1-1/2-in. Nozzle. Each 1.10
No. 591—To fit 2-in. Nozzle. Each 1.10
No. 592—To fit 2-1/2-in. Nozzle. Each 2.20
No. 594—To fit 4-1/2-in. Nozzle. Each..... 3.30

Bronze Nozzle for No. 2A and No. 2 Fire Hydrants
(Threaded to Order)

No. 599—To fit 1-1/4-in. Coupling. Each $2.20
No. 600—To fit 1-1/2-in. Coupling. Each 2.20
No. 601—To fit 2-in. Coupling. Each 2.50
No. 601A—To fit 2-1/2-in. Coupling. Each..... 2.75
Furnish Sample of Hose Thread.

Bronze Nozzle for No. 3 Fire Hydrant
(Threaded to Order)

No. 602—To fit 2-1/2-in. Coupling. Each..... $ 3.30
No. 603—To fit 3-1/2-in. Coupling. Each..... 12.00
No. 604—To fit 4-1/2-in. Coupling. Each..... 12.00

Bronze Waste Tube (With Leather Gasket)

No. 610—To refit 1-1/4 or 1-1/2-in. No. 2A Fire Hydrant. Each $2.50
No. 611—To refit No. 2 Fire Hydrant. Each..... 2.50
No. 614—To refit No. 3 Fire Hydrant. Each..... 3.00

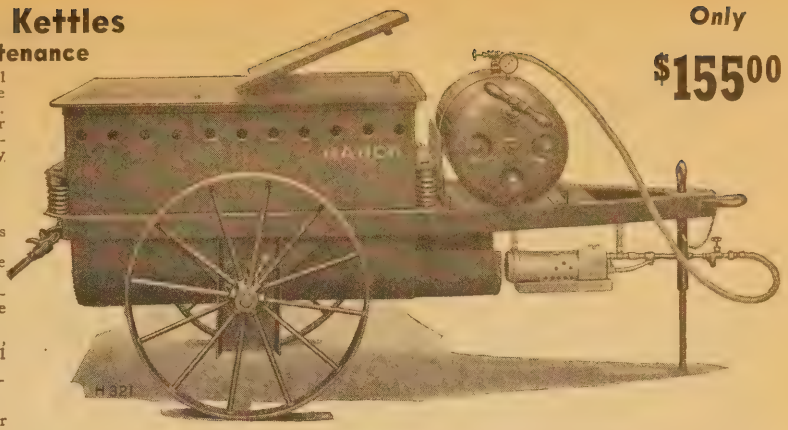
Bronze Top Bushing

No. 620—To refit 1-1/4 or 1-1/2-in. No. 2A Fire Hydrant. Each $2.00
No. 621—To refit No. 2 Fire Hydrant. Each..... 2.00
No. 624—To refit No. 3 Fire Hydrant. Each..... 2.50

Municipal Tar and Asphalt Melting Kettles

for Municipal, County and State Highway Maintenance

Only **$155.00**



Simple to operate. After filling the fuel tank, a few minutes' pumping will produce from 40 to 50 lbs. pressure, sufficient to operate burner and kettle continuously for several hours. Air is used only to force fuel to the burner. When pressure gets low, a few strokes of the pump raises pressure for several additional hours' operation. The burner is preheated for five minutes (instructions are furnished with each kettle) and equipment is ready for operation.

All-Steel Construction in every way.

SAVES FUEL because kerosene or coal oil is cheaper than wood.

SAVES TIME because kettle can be put in operation in 5 minutes.

SAVES LABOR because kettle requires very little attention after it is started.

NO SMOKE—City engineers recommend these kettles because the smoke nuisance, sparks, etc., are entirely eliminated.

Fuel tank of seamless pressed steel, and brazed, tested at 300 lbs. hydrostatic pressure. Tinned inside and outside to make it rustproof. Pressure gauge, fittings and valves of best materials and workmanship available.

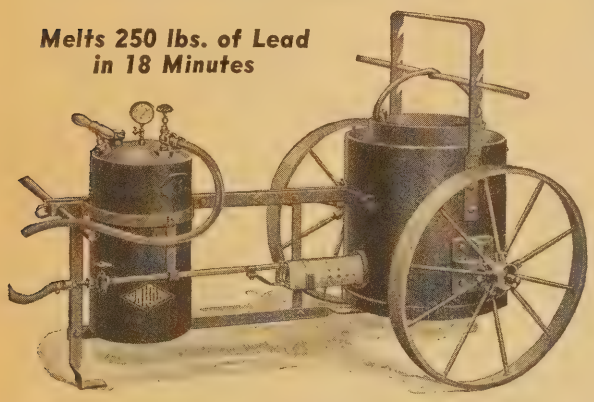
Strapped in position, therefore easily and quickly removed and used, with burner and hose, as portable equipment for drying, thawing, general heating and repair work.

Number	Capacity	Oil Tank	Fuel per Hr.	Ship. Wgt.	Price
K328	50 Gals.	20 Gal.	2 Gals.	840 lbs.	$155.00

Steel wheels standard. Hard rubber tires $40.00 extra. Pneumatic rubber tires $50.00 extra.

COMBINATION MELTING FURNACE AND DETACHABLE HANDY TORCH

Melts 250 lbs. of Lead in 18 Minutes



For melting lead and soft metals. Torch instantly detachable for preheating before welding and expanding for shrink fits, for melting lead out of pipe joints; for thawing frozen water pipes, frozen ground; melting ice and snow; for weed burning in summer. For heating salamanders, asphalt and tar road kettles, roofers' kettles with small, long and low fire boxes, water, asphalt, compounds and soft metals. Melts material in half the time required for wood.

The detachable torches supplied on these Melting Furnaces are the Portable Heating and Melting Torches, shown and described above. This combination outfit at our low price is a super value, in reality two outfits for the price of one.

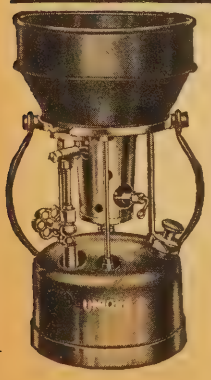
Furnace made of heavy sheet steel, ¼ in. thick. Furnished with pot rack and bar. Complete with cast iron melting pot.

The Melting Furnace on wheels has 24 in. roller bearing steel wheels with 3½ in. face.

The No. K335 Outfit will melt 450 lbs. of lead in 25 minutes and keep it molten at a few cents per hour.

Catalog No.	K334	K335	K336
Capacity of melting pot, lbs.	250	450	750
Time required to melt full pot of lead, minutes	18	25	35
Fuel consumption, gals. per hour	1½	2	2
Flame dimensions, inches	3x30	3½x30	3½x30
Fuel tank capacity, gals.	10	10	15
Price, ON LEGS	$99.75	$116.25	$131.35
Shipping weight, lbs.	300	335	375
Price, ON WHEELS	$125.00	$140.00	$155.00
Shipping weight, lbs.	350	385	425

YOU ARE WELCOME TO ORDER ANY ITEM IN THIS CATALOG FOR 30 DAYS FREE TRIAL



Kerosene and Gasoline Furnaces

Fast Heating Heavy Duty Type for Water Depts. Melts 50 lbs. of solder in 10 min. Generator produces a large volume of flame which consumes all carbon. Orifice cleared of foreign particles by turning orifice scraper while furnace is burning. Generator removed through top-plate gate without dismantling furnace. Powerful pump, steel tank, welded bottom, brazed fittings, and shock ring. Removable windshield.

Height 13 in.; diameter 8 in.; 1 gal. capacity.

No. K337 is fitted with light plumbers top plate. For 4, 5, and 6 in. solder pots. Handle and shield lock for lowering with hook. Weight of furnace 12 lbs.

No. K338 is widely used. Heavy top plate for hard service. For 6, 7, and 8 in. solder pots. Weight of furnace, 13 lbs.

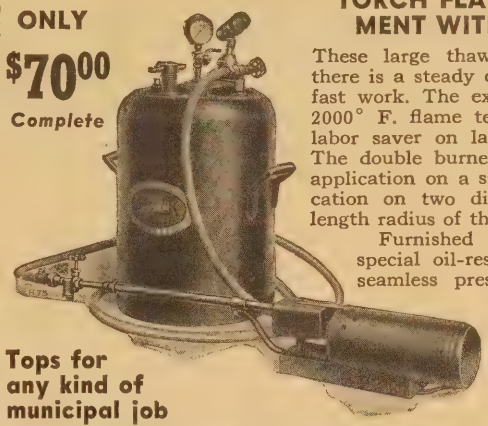
No. K339 is extra heavy with slightly larger top plate. For 6, 7, and 8 in. solder pots. Weight of furnace, 15 lbs.

No. K337 Gasoline Furnace, each $12.25
No. K338 Gasoline Furnace, each $13.60
No. K339 Gasoline Furnace, each $14.95

If wanted for burning kerosene, add $1.40 to above prices.

TORCH FLAME THAWING EQUIPMENT WITH 20-GALLON TANK

ONLY $70.00 Complete



Tops for any kind of municipal job

These large thawers are recommended where there is a steady demand for a great amount of fast work. The extra large quantity of heat at 2000° F. flame temperature is a big time and labor saver on large scale thawing operations. The double burner thawers permit double heat application on a single job or single heat application on two different jobs within the hose length radius of the fuel tank.

Furnished with high-grade coil burner, special oil-resisting hose in 12 ft. lengths, seamless pressed steel fuel tank. A real asset to any municipality.

No. K360. Torch Flame Thawing Equipment with 20 Gal. tank — **$70.00** With 15 Gal. tank — **$65.00.** With 12 Gal. tank —**$57.00.**

TELEGRAPH COLLECT—WE PAY ALL CHARGES

$49.00 for this light, sturdy, dependable one-man thawing outfit

With this outfit you can do more work than 8 men with picks, shovels and crowbars.

Oil Burning Outfits are big time and labor savers on frozen ground, ice, snow, frozen hydrants, pipes, gates, manhole covers, coal cars, tracks, switches, etc. When there is digging to be done for leaks, curb boxes, valves, holes, ditches, this outfit will pay for itself the first time used.

Consists of a 5-gallon welded steel tank, rustproof, equipped with powerful, quick-acting pump, pressure gauge, filler cap and burner valve; 6 ft. of oil-resisting hose and special thawing burner—not affected by wind or cold weather. Burner flame 3½x30", oil consumption 2 gals per hour. Burns ordinary kerosene or coal oil.

No. K367 Thawing Outfit **$49.00**

POURING POTS

No. K471 16 lb. capacity **$1.00**
No. K472 24 lb. capacity **1.95**
No. K473 50 lb. capacity **3.25**
No. K474 120 lb. capacity **4.50**
No. K475 200 lb. capacity **6.50**

ELECTRIC SOLDER POT

A moderate priced pot suitable for use where close temperature control is not a factor. Sturdily made to withstand everyday use.

No. K371 Electric Pot, 1-Quart **$6.50**
No. K372 Electric Pot, 2-Quart **8.00**

Bottom Pour Ladle

Self-skimming. The only ladle accepted by the Underwriters' Lab. The most valuable device ever invented for the pouring of metals. It is the only ladle made that takes the metal from the bottom of the bowl instead of the top, thereby avoiding all the scum and scoria that gathers on the surface and saving the loss of time and material in skimming. The sliding hand grip is another valuable safety feature.

INTERIOR VIEW OF LADLE

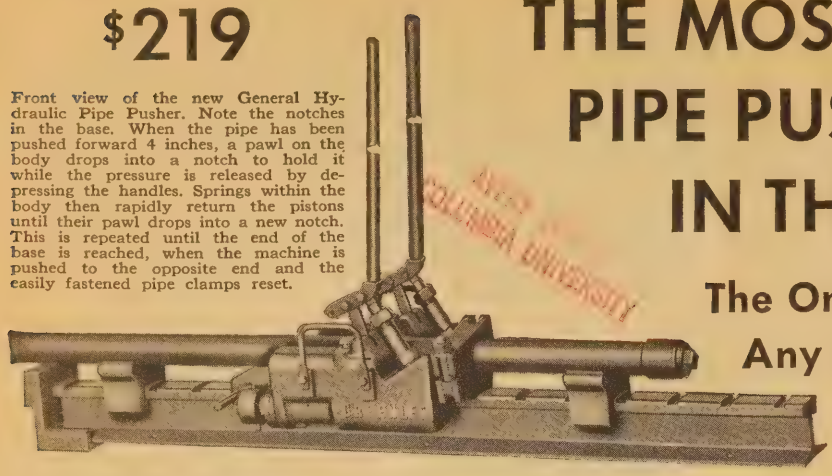
MADE IN FIVE SIZES

Numbers	4	5	6	7	8
Diameter, in.	4	5	6	7	8
Lead cap., lbs.	4½	9	18	25	40
Weight of Ladle complete	3	5	8½	9	13
Length of Handle, in.	14	16	29	29	29
Price, each	$2.40	$2.70	$3.60	$3.90	$4.20

NEW General Hydraulic Pipe Pushers

COMPLETE ONLY

$219



Front view of the new General Hydraulic Pipe Pusher. Note the notches in the base. When the pipe has been pushed forward 4 inches, a pawl on the body drops into a notch to hold it while the pressure is released by depressing the handles. Springs within the body then rapidly return the pistons until their pawl drops into a new notch. This is repeated until the end of the base is reached, when the machine is pushed to the opposite end and the easily fastened pipe clamps reset.

THE MOST WONDERFUL PIPE PUSHING JACKS IN THE WORLD!

The Only Pipe Pusher that Will Push Any Size Pipe from 3/4 to 4 Inch

The ultimate in pipe pushing machines has finally been reached. The new General Hydraulic Pipe Pusher, a proven development, embodies the ideas not only of a company known as pioneers in the industry, but also the practical suggestions of men in the field whose job it is to work with the equipment. Men, who by actual operating experience, know the vital requirements.

By utilizing Hydraulic Pressure for the Power it has been possible to design the machine very compactly for "One Man Operation." One man can easily and without effort apply the maximum pushing pressure on the pipe.

Eight Speeds—Soil conditions vary considerably, as we all know, in different parts of the country. With knowledge of this fact the New General Hydraulic Pipe Pusher was designed to provide eight speeds, giving pushing pressures ranging from 6,500 to 50,000 lbs. A combination pressure and speed best suited to every known operating condition.

The New General Will Save You More Time and Money Than Any Other Pipe Pusher

Due to the fact that this pusher can be operated by one man and that the actual work of pushing pipe is made so easy, a considerable saving in labor is made on every job. Eight operating speeds are available for varying soil conditions by merely changing the location of the links in the injector levers. This gives various pressures, ranging from 6,500 pounds to 25 tons and over. One man can exert the maximum pressure by merely pumping the left-hand lever slow speed position. The other pressures and speeds are obtained by various combinations, using either the right or left-hand lever, or both together.

Pipe can be pushed faster with this machine because the power unit operates on a notched steel base so that the pipe clamp is changed only every 5 feet. Pipe clamp is easily changed in a few seconds by loosening one bolt.

Because it is a one-man machine, pushes pipe faster and pushes pipe from size 3/4 inch to size 4 inch, the new General is easily the greatest value wherever there's pipe pushing to be done. Saves you more time, labor, and money. Reduces trenching to a minimum and eliminates high cost of repairing and replacing broken streets, highways, sidewalks, parkways. Municipal departments using the new General report wonderful results, including increased good will and praise from their citizens.

The Only Pusher for All Pipe From 3/4 in. to 4 in.

The General is the only pusher of its type that will push any size pipe from 3/4 inch to 4 inch. When considering General value, remember that it really does the work of two machines and does it faster and more economically.

The General Hydraulic Pipe Pusher at our low price of $219.00 is complete, ready for hard service in any soil. Priced for your savings, it includes the complete hydraulic power unit, steel base with two pipe supports and backing plate and one set of clamps to push any one size of pipe from 3/4 inch to 2 inch. You may specify clamps to push either 3/4 inch, 1 inch, 1 1/4 inch, 1 1/2 inch, or 2 inch. The steel base is 6 1/2 feet long, with travel of 5 feet. This allows pipe to be pushed five feet before the power unit must be moved back to the starting position.

No. K468 New General Hydraulic Pipe Pusher, complete with hydraulic power unit, steel base with two pipe supports and backing plate, and one set of pipe clamps for any one size of pipe, either 3/4 inch, 1 inch, 1 1/4 inch, 1 1/2 inch, or 2 inch. Shipping weight, about 325 lbs. Complete, only **$219**

When ordering specify size clamps

No. K469 Extra sets of pipe clamps, sizes 3/4 inch, 1 inch, 1 1/4 inch, 1 1/2 inch, or 2 inch, per set, only **$9.75**

No. K470 Extra sets of larger size pipe clamps for above:

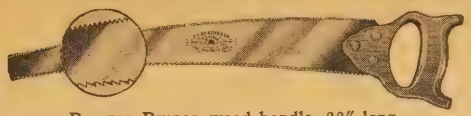
Size	2 1/2 in.	3 in.	3 1/2 in.	4 in.
Price Per Set	$12.75	$15.00	$17.50	$22.50

General Hydraulics on the Job

1. On this job, two General No. K468 Pushers, with 75-ton pressure each, were used to push 36-inch concrete duct 70 feet under three railroad tracks.
2. Here is a photograph of a General No. K468 in the third sub-basement of a Chicago hotel pushing 168 feet under Michigan Boulevard. This tough push on an angle was made in 9 hours and right to the spot wanted.
3. Here is the General No. K468 pushing 3-inch pipe under U. S. Highway 51 without disturbing the pavement or traffic.
4. Shown here is a General No. K468 pushing pipe under the concrete flooring in an industrial plant without moving the machines or tearing up the floor.

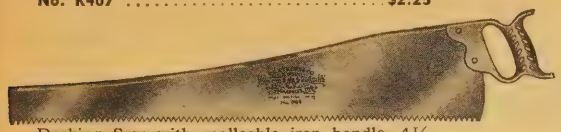
ATKINS SILVER STEEL PRUNING SAWS

A Forester Pruner, 1¼" wide at point, 3¼" wide at butt. Length 26".
No. K407 ..... **$2.25**

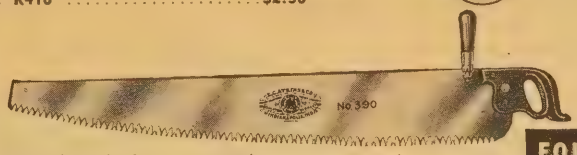


Paragon Pruner, wood handle, 22" long.
No. K410 ..... **$2.50**

Atkins No. 4 Pruner, Davey handle, 20" long.
No. K413 ..... **$2.15**

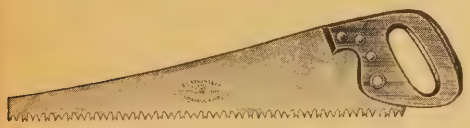


Docking Saw with malleable iron handle. 4½ point peg, 24" long.
No. K408 ..... **$2.65**

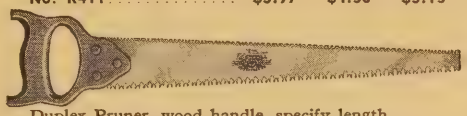


Order—Length, ft.	2½	3	3½
No. K411	**$2.55**	**$2.95**	**$3.59**
Order—Length, ft.	4	4½	5
No. K411	**$3.97**	**$4.50**	**$5.15**

FOR QUICK SERVICE WIRE COLLECT. WE PAY ALL CHARGES



Tuttle Tooth Pruner with wood handle. 24" long.
No. K409 ..... **$2.80**



Duplex Pruner, wood handle, specify length.

Order—Length, ins.	14	16
No. K412	**$1.48**	**$1.60**
Order—Length, ins.	18	20
No. K412	**$1.69**	**$1.75**

If You Don't See What You Want, Write Us—We Have EVERYTHING for Municipalities

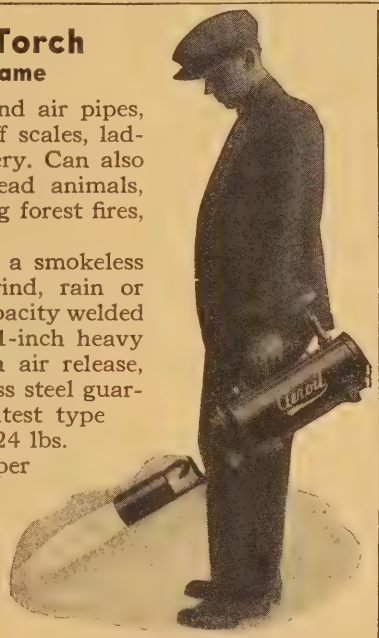
Aeroil Special Thawing Torch

Light and Compact—2000° Flame

For thawing out frozen water, steam and air pipes, frozen culverts, melting ice and snow off scales, ladders, platforms or any outdoor machinery. Can also be used for burning and destroying dead animals, burning rubbish and underbrush, fighting forest fires, etc.

Generates an intense 2000° heat with a smokeless 2½"x24" blue flame, unaffected by wind, rain or snow. Shipped complete with 1-gallon capacity welded steel pressure tank with 2-inch gauge, 1-inch heavy brass air pump, bronze filling cap with air release, oil regulating needle valve and a seamless steel guaranteed NEW OIL BURNER of the latest type with flat flame nozzle. Shipping weight 24 lbs. Consumes about one gallon of kerosene per hour.

No. 634 Thawing and Heating Torch **$26.75**



5% Discount for Cash or C.O.D. Orders

Goes Anywhere—Cuts Anything

Only $125.00

The Most Economical Mowing Tool on the Market

The most flexible, easily handled and efficient mower manufactured. Adaptable to all kinds of weed and grass mowing and enables the operator to do the work of four men with hand scythes. By walking slowly the operator can make the sickle literally saw through growths of weeds, grass and brush that would stall a horse-drawn mower.

The machine can be operated with ease in many places where large mowing devices cannot travel because its large wheels run free of the motor, allowing the machine to be backed up or tilted like a wheelbarrow. The operator can thereby cut up and down slopes, raise the sickle over obstructions and pivot the machine sharply in any direction.

Has a rugged, welded, riveted pressed steel frame, one-cylinder gasoline motor and a 36-inch sickle. Weight 160 lbs., so balanced on ball-bearing wheels that operating or lighting weight is but 15 lbs.

No. K419 Detroit Motor Scythe **$125.00**

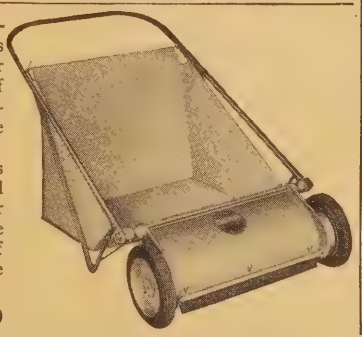
DON'T FORGET ABOUT OUR BIG 5% CASH DISCOUNT. DEDUCT IT WHEN SENDING CASH WITH YOUR ORDER. OR, IF YOU PREFER, TELL US TO SHIP C. O. D. AND THE DISCOUNT WILL BE AUTOMATICALLY DEDUCTED.

New Springfield Lawn Sweeper with Semi-Pneumatic Tires

Beautiful lawns, velvety smooth, free of weeds—low expense. Does this appeal to you? This sweeper lifts low-growing crab grass and other spreading weeds so the lawn mover can cut off the seed pods before they ripen. Removes quantities of foul weed seeds that would otherwise germinate in your lawns.

The Springfield sweeper gently lifts and collects paper, leaves, sticks, stones and fresh cut or dead grass without harm to the growing grass. Diameter of brush 9"; 22" length, with five individual fibre brushes. Large capacity collecting hopper made of heavy canvas, with metal bottom. A valuable asset to any street department.

No. K420 Springfield Lawn Sweeper **$30.00**



GENERAL CITY SERVICE POWER LAWN MOWER

This new and efficient machine is all you expect a fine, full-powered lawn mower to be. It is a high grade, full size, power cutting unit, simplicity in itself and priced low to make it the best value on the market today in equipment of this kind.

It's a compact power mower, using the most outstanding and satisfactory small gasoline motor made—a ½ to ¾ H.P. Briggs and Stratton engine, air cooled.

Motor operates the reel and propels the machine over the lawn. Easily started with quick acting hand lever starter. Reel 6 inches in diameter; has five crucible steel blades; ball bearings. Cutting height ¾" to 1¾". "V" belt and chain drive; lever control from handle bar. Wheels 10½ inches, fitted with semi-pneumatic tires.

The General City Service Power Mower has been thoroughly tested under all possible mowing conditions and is generally acceded to be the finest device of its type on the market. Its price is much lower than you would expect to pay for a mower of such fine quality.

No. K422. Power Lawn Mower **$67.50**

5% DISCOUNT FOR CASH OR C.O.D. ORDERS

Our Special Low Price Only $67.50

GEOPHONE LEAK LOCATOR—ONLY $75

The Most Sensitive and Dependable Instrument So Far Developed for Accurately Locating Leaks in Underground Piping

The GEOPHONE has nothing electrical about it—there are no batteries to go dead, no wires to short, nothing to wear out; it is entirely mechanical and operates upon the principle of the seismograph, the instrument used for detecting and recording earthquakes. With the GEOPHONE you can unfailingly and accurately locate underground leaks, both water and steam, that make the slightest sound. It will save the cost of expensive surveys, street digging, street paving replacement and time wasted.

THE OLD WAY

THE NEW WAY

No device so far developed can equal the GEOPHONE for picking up sounds through the earth or any solid substance. The GEOPHONE, when placed in contact with the earth, either on the surface or underground, detects vibrations from a distance. Through the rarefaction and compression of the air in the tightly sealed instrument, these vibrations are changed into sound waves and carried to the operator's ears through the rubber tubes.

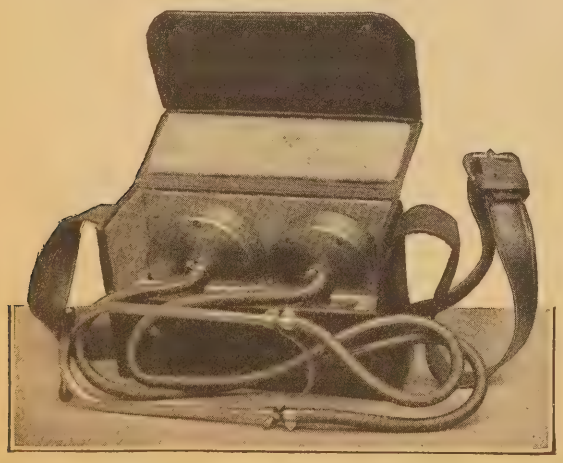
It is not necessary for actual *sound vibrations* to reach the GEOPHONE in order that sound may be heard in the earpieces. The wave motion communicated through the earth may be as absolutely soundless as is the electric current which serves to transmit a telephone conversation, and yet be transformed into sound in the air chamber of the GEOPHONE. This transformation takes place much as the electrical energy in the telephone circuit transforms itself into sound, though no actual sound passes over the wires.

The GEOPHONE is extremely sensitive, not only to vibration, but to variations in the vibrations, so it is very easy to detect the nature of sound, whether it is pick, hammer, explosion, fire, running water, or whatever the cause of the earth waves may be.

The time required to locate a water leak when within 50 or 75 feet of it is seldom over fifteen minutes and usually much less. It is often possible, after one is thoroughly familiar with the GEOPHONE, to determine the size of the leak over a wide range.

Remember that a leak the size of a common pin will waste about 65,000 gallons of water in a year. A leak the size of a match will waste nearly 400,000 gallons a year and a leak the size of a lead pencil means the loss of approximately 1,500,000 gallons of water in a year.

Don't waste water! Put a GEOPHONE to work. It will often pay for itself on just one job.



REPORTS FROM USERS

"1. A noise was heard on a fire hydrant which indicated a leak. With the Geophone we located a 30,000-gallon-per-day leak in an asphalt street 300 feet from the fire hydrant, the water from which was following a storm sewer for a short distance and emptying into a small stream. No indication of this leak was seen on the surface of the street. To stop the leak it was only necessary to dig a small hole and caulk a joint in the cast iron main.

"2. In another instance water was found rising slowly in a consumer's basement. With the Geophone we located the leak over 700 feet from the point at which the water was coming to the surface and found that the water was following a fissure in the strata for this distance before it found an outlet in the basement. It was necessary to dig only a small hole in the concrete base asphalt street to stop the leak by caulking a joint and in this case we not only saved the expense of digging up a large amount of the street, but we also saved the expense of damage to property by quickly locating and stopping the leak.

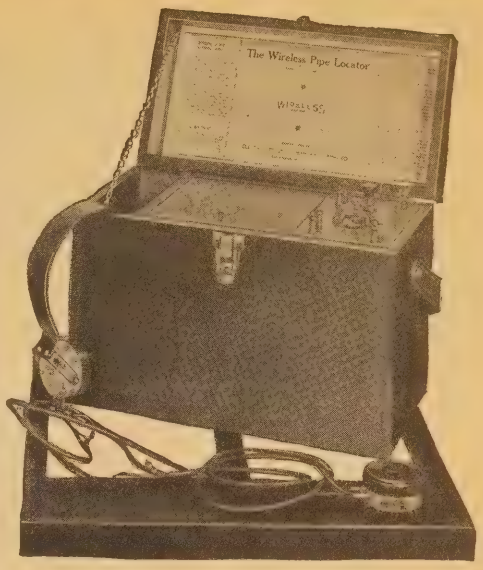
"3. A ½-inch service 2½ feet deep, leaking a stream smaller than a lead pencil, under 8 inches of brick and concrete base pavement, was heard 50 feet away (how much farther it might have been heard was not determined) and was located exactly, saving nearly the cost of the Geophone through not having to cut up the pavement. There was no surface indication of where the trouble was. It was only known that there was a leak in a certain block."

No. K421 GEOPHONE COMPLETE IN LEATHER CASE WITH SHOULDER STRAPS **$75.00**

Take Advantage of General's 30-day Free Trial Offer—Pay No Money Until Convinced

WIRELESS PIPE LOCATOR—ONLY $72.00

With New Ultra-Sensitive Amplifier Detector Coil—the Finest Instrument in the World for Locating Underground Water Pipes

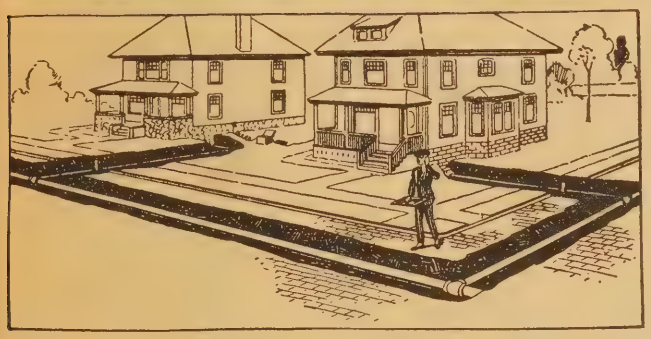


Those of you who have never used Wireless before for locating your buried pipes and services will get the thrill of your lives when you see how easy it works and with how little effort you can now accomplish what was once a very disagreeable and difficult task. Those of you who have used the old style Wireless locating machines will be amazed at this wonderful new instrument's superiority.

For the benefit of our new customers, the Wireless Pipe Locator is an electrical instrument designed for locating and tracing lost water, gas, oil or other underground pipes made of lead, iron or other metal at any reasonable depth. The instrument consists of two units—a substantially constructed STEEL portable box containing the tone producing mechanism and a four-cell dry battery and an exploring coil with headband type telephone receivers. With it pipes can be located under any type or kind of pavement and in any kind of soil or filled-in ground. Cinders, ashes, rubbish, etc., have no effect whatsoever on its efficiency. The depth pipes are buried may easily be determined. The average workman can learn to use the new Wireless Pipe Locator in fifteen minutes by following our simple instructions.

Wireless' method of operation is very simple. One wire from the vibrator box is connected to any exposed part of the lost pipe and the other wire to a nearby pipe. Connections can be made at sill, hydrant, faucet or any exposed place. When the connections are made, there will be a complete circuit, the tone current flowing through one wire, the pipes and returning on the other wire. The pipes and wires carrying the tone current will probably form a rough square or rectangle. The operator carrying the DETECTOR COIL, and with head phones in place, steps inside the square. Immediately a buzzing sound or the TONE is heard. It is like being inside an enclosure protected by electricity. The tone will be heard EVERYWHERE INSIDE THE SQUARE. At the exact point above the pipe, when the operator steps out of the square the tone will be lost; he cannot get out of the square without receiving a distinct signal. It is quite evident that the lost pipe which forms one side of the square or circuit can be located exactly because of the loss of tone when the pipe is crossed. Curb or shut-off boxes are easy to locate when the line of pipe is known as it is common practice to place them at a given distance from the sidewalk or curb line.

TELEGRAPH COLLECT—WE PAY ALL CHARGES



MAKE A 30-DAY NO-OBLIGATION TEST—TRY IT AT OUR EXPENSE

QUICKLY SAVES FAR MORE THAN ITS MODERATE COST

It's Easy with Our New Ultra-Sensitive Exploring Coil

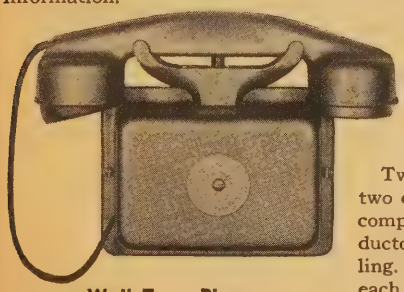
The efficiency of any pipe locator depends largely upon the design of the detector or exploring coil. The detector furnished with our instrument is the result of years of careful study in both the field and laboratory and is of a size and design to produce the best results. The windings and other parts are securely enclosed within a case of black walnut which protects them from moisture and mechanical damage. Two head phones are furnished with the Detector and it is so arranged that either one or both head phones may be used at the operator's option. This Detector will greatly improve the efficiency of any pipe locator of the inductive type and will be sent to any Waterworks Department or Municipality for a 30-Day free trial on request.

Shipping weight of entire instrument 30 lbs. Size of box 14″ x 10″ x 7″. Size of Detector 16″ x 16″ x 1″. Immediate shipment from stock.

No. K395 Wireless Pipe Locator, complete **$72.00**

The Most Economical Private Telephone System Ever Offered

Here is a private telephone system, costing little or nothing to operate, which is in great demand among Fire Departments, Police Departments and Municipalities. With this new system, you can talk and ring for thousands of feet. Saves valuable time and prevents delays in giving orders and dispensing information.



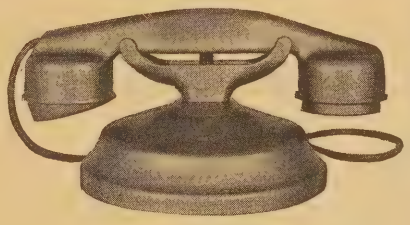
Wall Type Phone

2-Phone System

K176 Desk Telephone **$6.00**
K177 Wall Telephone **6.00**
Above prices include 50 feet interior wire.
K178 Extra interior wire, per 100-foot roll . . . . . **.80**
K179 Extra exterior wire, per 100 feet **1.20**

3-Phone System

K180 Mast. Desk Telephone **$8.50**
K181 Outl'g Desk Telephone **7.00**
K182 Outl'g Wall Telephone **7.00**
K183 Interior Wire, per 100 feet **1.75**
K184 Exterior Wire, per 100 feet **3.50**



Desk Type Phone

Wall or desk type telephones are furnished as desired, the desk type being furnished with a concealed buzzer and the wall type with a concealed bell. Depressing the plunger on which the handpiece rests operates the signal of the telephone.

Two wires are required between the telephones and two dry cells at each phone. Each phone is furnished complete with terminal strip, 50 feet of single conductor interior wire and full instructions for installing. Full instructions for wiring are supplied with each system. Anyone can make the installation in a few minutes' time. No soldered connections necessary, no electrical knowledge required. Just follow the simple directions and the system is ready for service.

These systems are for private service only. They are not designed for connection to public exchange systems and cannot be used in that way.

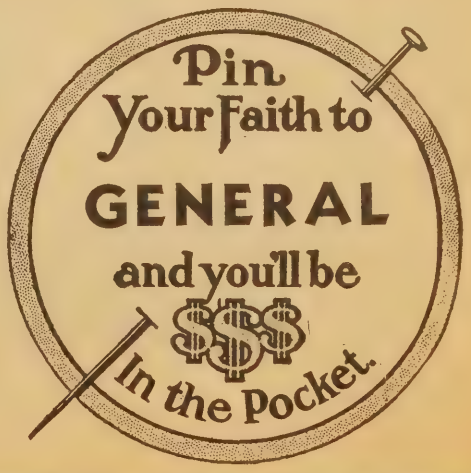
Prices shown are for single telephones. For the 2-phone system, order two phones at **$6.00** each. For the 3-phone system, order one Master Desk Telephone at **$8.00** and two outlying phones, either desk or wall type or both, at **$7.00.**

Telegraph General City Service Co. any time about anything
This service is free. We pay all charges

New Aluminum Pocket Seal

Here is a new seal so small you can hold it in the palm of your hand. Very small and compact; weighs only ten ounces. Furnished complete with leather carrying case. Price includes any lettering desired. State coat-of-arms can be furnished for $1.00 additional.

No. K190 Pocket Seal . . . **$4.75**

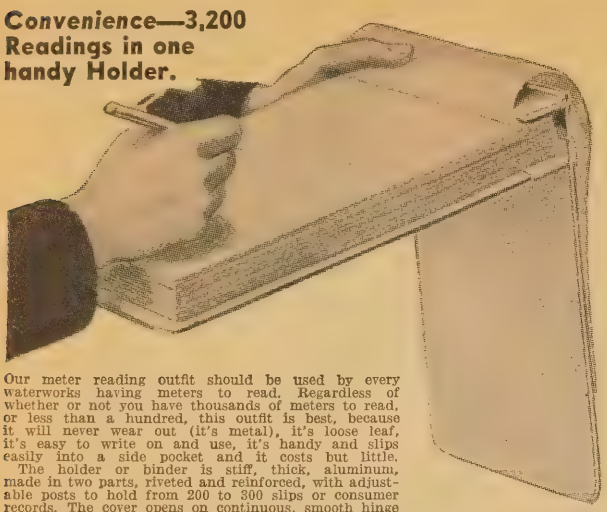


Buy Direct from General—30 Days Free Trial—5% Discount for Cash or C.O.D. Orders

YOU ARE WELCOME TO ORDER ANY ITEM IN THIS CATALOG FOR 30 DAYS FREE TRIAL

Waterworks Meter Reading Outfit

Convenience—3,200 Readings in one handy Holder.



Our meter reading outfit should be used by every waterworks having meters to read. Regardless of whether or not you have thousands of meters to read, or less than a hundred, this outfit is best, because it will never wear out (it's metal), it's loose leaf, it's easy to write on and use, it's handy and slips easily into a side pocket and it costs but little.

The holder or binder is stiff, thick, aluminum, made in two parts, riveted and reinforced, with adjustable posts to hold from 200 to 300 slips or consumer records. The cover opens on continuous, smooth hinge and all corners are smooth and rounded so as not to tear clothes or cut your hands. When open, each sheet lays flat, right under the pencil.

The slips or pages are of good tough bond paper, printed with a heading to show Consumer's Name, Street Address, Service No., Meter Size, Name, Number and Dial of Meter. Then, below that, the page is ruled with space for 16 meter readings, with space for DATE, space for the initials of the READER and a column divided into 8 spaces into which to put the figures of the meter READING; then there is another space for REMARKS after each reading. Could not be more complete or handy. The slips are 4 1/4 x 8 1/4 inches, just the right size.

No. K341 Meter Reading Outfit, complete with holder and 200 slips for 3,200 readings, only **$3.90**

No. K342 Extra slips, printed and perforated holes, per 100 ..... 60c

If You Don't See What You Want, Write Us—we Have EVERYTHING For Municipalities

INSPECTOR'S TEST GAUGE

Can Be Attached to Any Connection, Hydrant or Faucet—No Tools Necessary

Every Waterworks man will consider this gauge a practical and useful necessity. Without tools and almost instantly it can be attached to any plain or threaded faucet. It will indicate exactly the water pressure in pounds.

Many complaints come from sudden areas of low pressure. This can be proved by testing other services in the same neighborhood and if such is the case the area and extent can be defined. Made with 100, 150 and 200 lb. dials. Specify your choice.

No. K370. Inspector's Test Gauge **$8.75**

5% DISCOUNT FOR CASH OR C.O.D. ORDERS

It Pays to Seal Meters

Sealing Press

Water, Gas and Electric meters are easily sealed and safeguarded against manipulation and tampering. Thousands of Superintendents now take this precaution, at least with some meters. The expense is practically nothing—only a cent or so—and there is everything to gain and nothing to lose by doing it.

Our special Seal Press tool is only 6 1/2 in. long, pocket size, yet the especially designed compound lever makes it the most practical tool of its kind and the price is low.

We will engrave the press to your order with letters which will show on the lead disc, such as "Water Dept" or "Gas Co." or "P. G. & W.," etc. No extra charge for your engraving.

Wire furnished is flexible stranded copper, tinned and will not corrode. Comes in 100-foot coils. The meter to be protected is wired, the lead disc, which has two holes through it, is slipped on the wire and squeezed with the Seal Press. Done in a jiffy.

No. K325 Seal Press, engraved, compound lever. Each **$6.20**

No. K326 Sealing Wire, copper stranded, Per 100 feet ..... **60¢**

No. K327 Lead Sealing Discs, perforated. Per 100 ..... **55¢**

Reese's ADJUSTABLE Stencils

MAKE YOUR OWN SIGNS SIMPLE AND ECONOMICAL

For making Municipal, Park and Highway signs. Also for marking curbings under hydrants, pavements, sidewalks, etc.

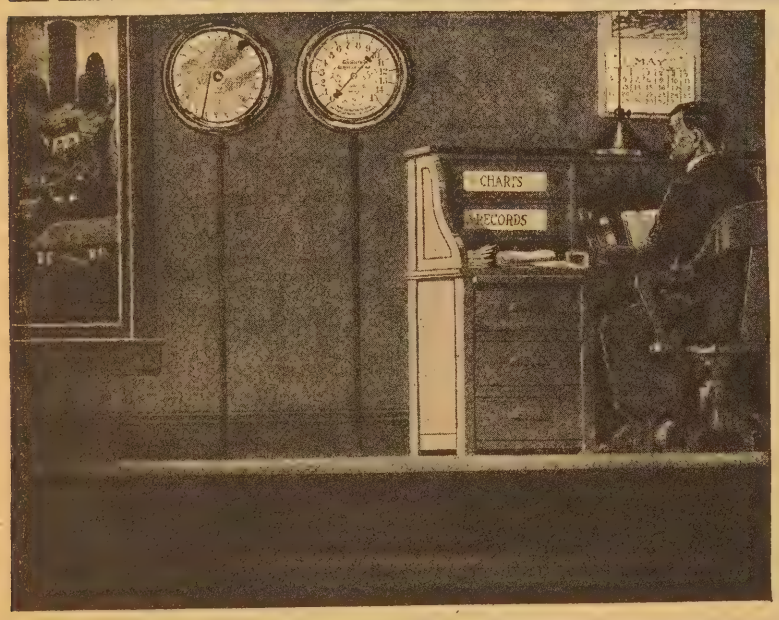
The outstanding feature of Reese's Adjustable Stencils is the ease with which they interlock. Any wording can be made and after using, the characters can be put back and used over and over again. Any man can be a sign painter with these Adjustable Stencils because they are easy and quick to use. Far superior to hand lettering.

Produces uniform and neat work. For outdoor marking or signs, ordinary paint can be used with these stencils.

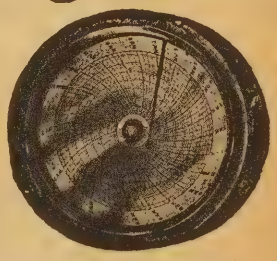
Each set contains 2 of each letter of the alphabet, 2 of each figure, 1 Beginner, 1 Letter Ender, 1 Figure Ender, 1 Space, 2 Periods, 1 Comma, 1 Apostrophe.

No. K191 Size 2 Inches, 49 Letters, 20 Figures ..... **$ 6.50**
No. K192 Size 3 Inches, 49 Letters, 20 Figures **15.00**
No. K193 Size 4 Inches, 49 Letters, 20 Figures **20.00**
No. K194 Size 6 Inches, 49 Letters, 20 Figures **33.00**

Special Waterworks Recording Pressure Gauges



Keeping close check on every variation in pressure and influencing your men to regularly attend their duties. If such duties are not attended, the chart shows this inattention and reports to you fully, whenever you may care to look at it. Thus, as if your personal attention had been given, your plant runs regularly and smoothly. The charts are then filed for future reference, and should you care to learn what was going on in your plant, even years afterward, quickly refer to the charts of the GENERAL GRAPHIC RECORDING GAUGES.



This instrument is special for the purpose intended and very reasonable in price for the first class movement and workmanship. The pressure springs are unusually large and the clock movements are enclosed in dustproof cases.

In competition with all other makes this Recording Gauge was selected and adopted by the Waterworks Engineers of Chicago and made the STANDARD for the department, and the City now has **over 95 in use.**

The charts cover practically all ranges of pressure, and we can supply the proper gauge and the right charts for your pressure conditions.

No Complicated Mechanism

Their Simplicity and Ruggedness, in all kinds of usage, are surprising. Without repairs and but little attention they run year after year. There is no particular skill required to install these gauges, as they are connected just as an ordinary pressure gauge. The attention required is but slight—the clock movement is to be wound up, the charts to be changed and the recording pen filled with ink.

On account of the design of the cases and the ringless OPEN FACE features, it is as clear and easy to read as other gauges with charts of ten and twelve inch diameters.

Instrument **No. K316** priced at $57.50 net, is a favorite with **hundreds of Superintendents.**

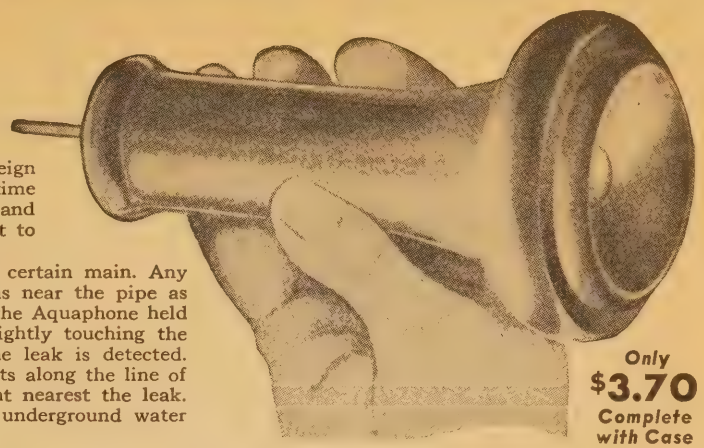
No. K315 Dial, 6¾ inches Diameter, each **$47.75**
No. K316 Dial, 8½ inches Diameter, each **$57.50**
No. K317 Dial, 10 inches Diameter, each **$72.50**

State maximum and minimum pressure with order.

WE CAN SUPPLY RECORDING GAUGE CHARTS OF ALL MAKES AND SIZES

THE AQUAPHONE—FINEST, MOST ECONOMICAL AND MOST EFFICIENT WATER LEAK DETECTOR MADE—THOUSANDS IN SERVICE

Use Like a Telephone Receiver! No Battery, No Switch, No Wire, No Connections! Just Listen!



Only **$3.70** Complete with Case

Here is the finest instrument of its type on the market today—the Aquaphone—most compact and efficient little device ever developed, regardless of its utmost simplicity and small cost. Thousands of Water Superintendents all over the U. S. and even in foreign countries keep one or several always on hand. Pays for itself the first time used. Inspectors carrying an Aquaphone can easily detect leaks, waste and running water right on the premises simply by placing the instrument to the piping. On outdoor survey work, the procedure is usually as follows:

A leak is suspected along a particular section of pipe or in some certain main. Any kind of a light metal rod is driven into the ground at some point as near the pipe as possible. If there is a leak in the vicinity, the rod will vibrate. With the Aquaphone held to the ear, exactly as you use a telephone receiver, and the point lightly touching the metal rod, this vibration will become distinctly audible and thus the leak is detected. To definitely locate the leak, this operation is repeated at nearby points along the line of pipe. The point at which the sound is loudest is, of course, the point nearest the leak. By this and other related methods, practically any type of leak in underground water pipes can be located very accurately.

Every Water Service Man Should Carry an Aquaphone —Can Be Carried in the Pocket Ready for Instant Use

The Aquaphone is also used for testing valves. For instance, the water is shut off from a building at the street or sidewalk. By placing the point of the Aquaphone against the valve (or if this is not possible, against the long key wrench used for closing the valve) the escape of any water through the valve can be readily detected. Leaks on service pipes or faucets in the house will be indicated by the Aquaphone in contact with the key, open valve or any fixture within the premises.

The Aquaphone has many other uses, too numerous to name. Often used to determine if water has been left running in vacant or closed buildings or apartments—used extensively by plumbers and sanitary and health inspectors. Equip each of your service men with an Aquaphone. It can be carried in the pocket and each one will save you many times its cost throughout its life.

No. K425. Aquaphone complete in carrying case. . . **$3.70**

If wanted with two 6" quickly attachable extension rods, 75c extra. Longer extension rods can be supplied on request.

We invite you to try the Aquaphone free for 30 days at our expense. Just drop us a line and one will be mailed to you the same day your letter is received. Once you try this wonderful little instrument you'll never want to be without one.

REMEMBER THAT A LEAK THE SIZE OF A COMMON PIN WILL WASTE ABOUT 65,000 GALLONS OF WATER IN A YEAR. A LEAK THE SIZE OF A MATCH WILL WASTE NEARLY 400,000 GALLONS IN A YEAR AND A LEAK THE SIZE OF A LEAD PENCIL MEANS THE LOSS OF APPROXIMATELY 1,500,000 GALLONS OF WATER IN A YEAR. *PROTECT AGAINST LOSSES OF THIS KIND WITH AN AQUAPHONE.*

THE MAGNETIC DIPPING NEEDLE

The Handiest Thing a Waterworks Man Can Have

This is the instrument that saves thousands of dollars every year for the waterworks departments of cities and towns the country over. It saves hours of valuable time by instantly locating service boxes and shut-offs that have become covered with snow, earth, concrete sidewalks, brick pavements, etc. It locates the hidden boxes just as easily as a magnet picks up a pin. It is a wonderful time and trouble saver and pays for itself many times over in usefulness the first few months you have it.

To be sure that the Magnetic Dipping Needle will give perfect satisfaction, we ship subject to 30-Days Approval and Free Trial and if there should be any reason why you do not wish to keep it, we will gladly take it back and no questions asked. No charge will be made for any use you may have made of the Dipping Needle during the trial period if you decide not to keep it.

The Magnetic Dipping Needle is the simplest instrument in the world to operate. Just move it over the spot where you think the buried curb box or shut-off is located, and if it dips, the box is there. It should be a part of the equipment of every practical Superintendent. The use of it will save time, hard labor and its cost is so small it will pay for itself many times over in a few months. The case it comes in will fit your pocket and with reasonable care it will last a lifetime.

No. K311 Magnetic Dipping Needle, complete with case **$17.50**

POINTS OF SUPERIORITY OVER OTHER NEEDLES

1. HIGH SENSITIVITY
This is really the prime requisite of a good dipping needle. While the sensitivity is governed somewhat by the size, the most important factor is the type of steel used. In our needle we use a high grade, very expensive Cobalt steel which combines the three essentials—high sensitivity, maximum retentivity (power to hold a high magnetic charge) and permanence or non-aging characteristic, insuring extension of the life of the needle over a long period of time. Experience has shown us that many of the needles on the market lack this quality of permanence and fail to operate after a short period of use.

2. FREE ROTATION
In our needles, friction is cut down to a minimum by using special high-grade jewels (genuine sapphire, ground and polished as accurately as those in the finest watches) with hardened and ground steel pivots, insuring the perfect balance necessary to free rotation.

3. DURABILITY
The case is made from solid copper and brass castings, finely machined and so constructed and assembled that the fine jewels and delicate adjustment of the needles are fully protected from dust and will remain in perfect balance for years. The case is chromium plated and will not tarnish.

4. ENGRAVED SCALE
The scale on both faces of our needle is engraved in the metal instead of the usual paper scales, which frequently become loose and peel off. Our scale is permanently a part of the case, and, being in color, is easily readable.

5. STEM STOP
The magnetic stop on our needle is a radical departure from the usual chain and cotter key. The latter method of stopping the needle is crude and most undesirable. The chain breaks, the cotter key becomes lost and the stop is of no value. Our needle has a stem stop. The stop is positive, rugged and will not become detached or broken from the instrument.

ELLIS TYPE PIPE CUTTER—FINEST ON THE MARKET—WILL CUT EITHER CAST IRON OR LEAD PIPE IN A JIFFY

This is the most valuable Pipe Cutter on the market for any Waterworks or Gas Company. It cuts all kinds of pipe, making it a universal tool. It can be used in the shop or in the ditch. Cutting pipe in a ditch with an Ellis is the quickest and safest means of cutting it just where and when you want it cut. It entirely answers that purpose.

Every point in contact with the pipe is a cutting disc. You will therefore readily see that the cutter when adjusted on the pipe need only be moved in a small part of a circle in order to cut entirely around.

ONE CUT SAVES THE PURCHASE PRICE

One cut in a ditch partly filled with water—one cut in a tight corner without disturbing other pipes or street work, a cut by divers under water—a hurry-up repair job, cutting out a small section and setting in a new one. Many water Superintendents have reported the cutter to have saved its cost on just ONE such job. You may never use yours for any other than ordinary cutting of pipe, but it will be a most valuable tool should your emergency ever arise, as it has with numerous others.

DESCRIPTION

To place in position in the trench slip out one of the thumb bolts, run the links under the pipe and lock back together—a moment's work. The handle can be lowered on the rod. This allows operation in a narrow ditch.

In cutting pipe in trench all the space required underneath the pipe is enough to pass the links carrying the cutter wheels. In making ordinary repairs or inserting specials in a line of pipe, the work can be completed in less time than it takes to dig a hole large enough to use hammer and hardy, all cuts are clean and smooth, without danger of breaking the pipe or disturbing the joints.

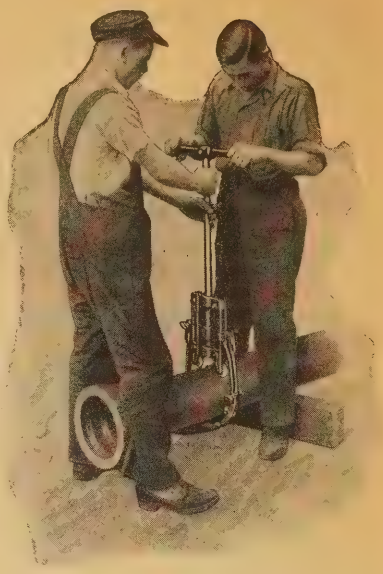
On cast iron pipe the wheels do not cut through, but when a groove has been cut around the pipe to a reasonable depth a little extra pressure on the screw and handle will cause the pipe to crack off. On a 12-inch water main this depth of cut will not exceed one-eighth inch.

TRIAL

This tool is now in use by over 2500 Water Departments and we would be glad to send you one for a try out, you to be the sole and absolute judge of whether you keep it or not.

It is made in two sizes, as listed below and either size will cut either steel or cast iron pipe up to the limit of its capacity.

No. K286 Cuts all kinds of Pipe 4 to 8 inches. Each **$50.00**
No. K287 Cuts all kinds of Pipe 4 to 12 inches. Each **$65.00**
No. K288 Extra Cutter Wheels. Per dozen ..... **$ 7.20**



LEAD PIPE CUTTERS

Cuts lead pipe smoothly and quickly and makes no chips. Cutters are made of best tool steel and can be sharpened easily on an oil stone. The tool is nickel plated.

No. K299 Lead Pipe Cutter, each **$3.95**

THIN WHEEL PIPE CUTTERS

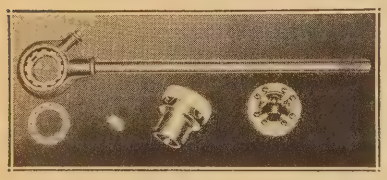
This cutter is especially adapted for and will cut CAST IRON pipe as well as steel pipe. It works and cuts easily.

Wheels are of a high-grade tool steel specially treated to render them tough. Other parts of first-grade steel and malleable iron.

An extra strong tool at a low price.

No. K296 Cuts from 1/8 to 2 inches ..... **$ 4.50**
No. K297 Cuts from 2 1/2 to 4 inches **12.95**

GENUINE BEAVER RATCHET THREADER



The only ratchet tool made threading 1 inch and all smaller sizes.

The most useful small set one can have. It is not only handy for bench work, and to carry, but will thread pipe in cramped places where a two-handle stock cannot be used. Conceded to be the best ratchet tool of its type ever made. Each outfit includes handy carrier for dies.

No. K289 With 1/2, 3/4, 1" Dies **$11.25**
No. K290 With 3/8, 1/2, 3/4, 1" Dies **13.50**
No. K291 With 1/4, 3/8, 1/2, 3/4, 1" Dies **15.75**
No. K292 With 1/8, 1/4, 3/8, 1/2, 3/4, 1" Dies **18.00**

Water or Gas Main Calking Tool Outfit

For calking mains up to 12-inch pipe. Strong bag of full grain harness leather. The right tool for every job always within reach in this serviceable, easily carried case.

No. K295 CALKING SET

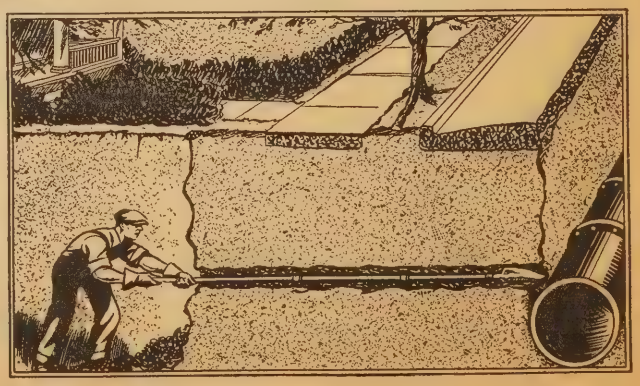
Calking Iron, 1/8" point	$ .95	Cold Chisel, 3/4"	$1.20
Calking Iron, 1/4" point	.95	Calking Hammer, 3 1/2 lbs.	2.50
Calking Iron, 3/8" point	.95	Dog Chisel	2.50
Calking Iron, 1/2" point	.95	Dog Diamond Point	3.25
Calking Iron, 5/8" point	1.10	Leather Bag	8.95
Yarning Iron, 1/8" point	1.35	Outfit as shown	19.75

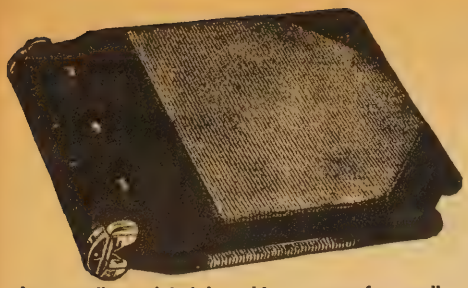
If You Don't See What You Want, Please Write Us — We Have EVERYTHING for Waterworks, Street and Sewer Departments

A Tunneling Scoop That Earns Its Cost on the First Job

This one-piece scoop made of tool steel is light; but heavy enough to punch with. Any length of 3/4-inch pipe may be screwed on for a handle. Get into the tough places and out of the tight ones with our Tunneling Scoop.

No. K298 Tunnel Scoop, each **$2.75**





Any wording printed in gold on cover for small extra charge.

Special Waterworks Ledger

$14.30 COMPLETE 200 PAGES and Index

Thousands of Supts. rely on this Ledger to keep the Accounts Straight

Our Special Account Ledger for Waterworks is printed and ruled specially for that purpose. It is a ledger that will last for years, stout and strong, with corduroy and red leather finish. Loose leaf style, expanding to take from 250 to 400 pages. It opens by a key, lays flat and pages can be conveniently put in or taken out. Pages 9¼x11⅞ in., ruled both sides for 30 entries. Such a ledger ruled and made to order would cost much more.

Ledger Complete With Index

No. K239	200 pages	$14.30
No. K240	350 pages	17.53
No. K241	500 pages	22.75
No. K242	750 pages	27.95
No. K243	Extra pages, per 100	2.15

This Sample page is reduced size to show ruling. Actual size 11 7/8" wide.

SAMPLE OF PAGE

Consumer_____ Service No._____

Premises No._____ Street

Occupied by_____ Owned by_____

	Date of Reading	Meter Reading	Cubic Feet	Gallons	Rate	Water Rent	Meter Rent	TOTAL	Date Paid	REMARKS

BRASS ETCHED DOOR AND DESK SIGNS

Size, 2 1/2 in. wide by 10 to 12 in. long. RAISED BRASS LETTERS AND BORDER WITH BLACK OXIDIZED BACKGROUND.

List of titles we have in stock:

Applications, Assessor, Attorney, Auditor, Board of Education, Bookkeeper, Building Commissioner, Cashier, Chief Clerk, Chief Engineer, Chief of Police, City Clerk, City Engr. and Div. of Public Works, City Treasurer, Clerk, Clerk and Recorder, Closet, Collector, Commissioner, Commissioners, Council, Council Chamber, County Attorney, County Clerk, County Judge, County Treasurer, Court, Danger, Directors, Engine Room, Entrance, Exit, Fire Escape, General Manager, Information, Janitor, Ladies' Room, Lavatory, Legal Holiday, Library, Mayor, Manager, Marshal and Chief Police, Next Window, No Admittance, No Smoking, Notary Public Office, Pay Bills Here, Please Keep Out, Police Court, Police Dept., President, Principal, Private, Purchasing Agent, Recorder, Repair Dept., Rest Room, Sanitary Officer, Secretary, Sheriff, Store Room, Superintendent, Supt. of Schools, Surveyor, Telephone, Toilet, Treasurer, Walk In, Wash Room, Watch Your Step

No. K247 Brass Etched Signs. Only 90c Each

NEW ECONOMY IN RAISED LETTER SIGNS

Only 28c per Letter or Symbol

Whatever your sign requirements, these new Supersine name plates can fill them at astonishingly low prices. Supersine letters are formed up in high relief on a heavy plate of pure aluminum which takes a high polish. The background is finished in weatherproof enamel with a choice of a variety of colors and finishes. Practically indestructible and on account of the aluminum used will not rust or tarnish. Just keep dirt off with a damp cloth.

Signs can be made with letters ⅝", ⅞" or 1¾" high. Specify size desired on your order. House numbers are made 2¼" high.

No. K238 Supersine Name Plates, per symbol. 28c

Minimum charge of $1.00 per plate.

TELEGRAPH COLLECT—WE PAY ALL CHARGES

Telegraph General City Service Co. any time about anything
This service is free. We pay all charges

FOLDING CHAIR

This is one of the most popular folding chairs on the market today. Curved, laminated veneer seat, birch or maple face, with oak varnished finish; form fitting steel back. Frame is of 1-inch double beaded, 16-gauge channel steel. Seat is 14⅝ in. wide by 15¼ in. deep. Polished steel glider feet. Made in three colors, light brown, taupe and olive green. Chairs can be ganged for sectional combination if desired.

No. K110 Folding Chairs, each $3.85

BRASS DOG LICENSE TAGS COMPLETE WITH LINKS

No. K161

No. K162

No. K163

No. K164

Made from 20-gauge brass complete with steel links. Numbered consecutively and stamped with the year and name of your city. Specify catalog number.

25	50	75	100	150	200	300	500
$1.95	$2.50	$2.95	$3.75	$5.25	$5.95	$8.95	$11.75

The Finest Park Benches on the Market at Sensationally Low Prices from General City Service Co.!

Standard benches and settees in thousands of parks throughout the U. S. Low in price, high in quality, comfort, durability and good looks. Curves fashioned to fit the body and give the utmost in relaxation. Legs and back supports are of unbreakable steel channel, size 1½ x ½ inch. Slats are of selected hardwood. This makes for long life, no splinters or breakage. All bolts are galvanized, preventing rust and soiling of clothes. Special steel center support adds strength to the settee and keeps slats in perfect alignment throughout. Steel brace from legs to center support holds settee rigid. No wobbling, loosening or rattling. ¼-inch hole in each foot permits fastening down where desired.

Made in the short length as shown or in longer 6, 8 and 10-foot lengths, preferred by many parks. Painted two coats of durable green enamel. Shipped knocked down, complete with galvanized bolts for assembly.

No. K109 Park Bench:

4 feet	$4.25	8 feet	$7.25
6 feet	6.25	10 feet	8.25

5% DISCOUNT FOR CASH OR C.O.D. ORDERS

DOG CATCHER'S NET

Made of 2-inch square mesh No. 30 medium twine with a bursting strength of 60 lbs. per strand. 4 feet in diameter and 9 feet deep. Thousands in service. We supply net only—ring and handle not included.

No. K111 Dog Catcher's Net. $5.55

Take Advantage of General's 30-day Free Trial Offer—Pay No Money Until Convinced

WATERWORKS ADJUSTABLE HYDRANT WRENCH AND HOSE SPANNER

Specially constructed of the finest, high-grade drop-forged carbon steel. Absolutely break-proof and will last forever. Opening in head may be regulated by turning handle to right or left for any size desired. Fits any size pentagon nut up to 1¾″ across face. This feature makes it unnecessary to carry around a number of form wrenches for different sizes and types of hydrants. Fire Departments all through the country are using this wrench and finding it invaluable for opening and closing hydrants in emergency work and where every minute is precious. Can also be used to couple up hose connections easily and quickly.

No. 134 Drop-Forged, Adjustable Hydrant Wrench and Spanner.....**$1.75**

EMERGENCY LEAK CLAMPS FOR PIPES AND MAINS

These Leak Clamps are for Wrought Iron, Steel or Lead pipe, such as services, small mains, risers, etc.

Clamps are packed in cartons, twelve to a box, ½ in. to 2 in., and six to a box 2½ in. to 4 in., inclusive.

We especially recommend buying them a box at a time, to have some on hand in case of trouble.

Order No. K429

Size of pipe	1/2″	3/4″	1″	1-1/4″	1-1/2″
Price, each	$.90	$1.02	$1.12	$1.35	$1.59
Size of pipe	2″	2-1/2″	3″	3-1/2″	4″
Price, each	$1.89	$2.91	$3.10	$3.50	$4.50

Waterworks Split Sleeves Standard Cast Iron

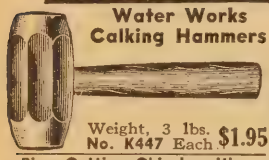
Excellent for repairing mains without taking out broken pipe. Easily bolted in place, ready for calking. Thousands are holding permanently. **No. K438.**

No. K438

Size	12″	14″	16″	18″	20″	24″	30″	36″
Length	12″	12″	14″	14″	14″	14″	14″	15″
Each	$41.25	$47.50	$73.00	$95.00	$99.50	$115.50	$161.00	$184.50

5% Discount for Cash or C.O.D. Orders

Water Works Calking Hammers



Weight, 3 lbs. No. K447 Each **$1.95**

Pouring Pots Cast Iron

No. K473 Capacity 50 pounds of lead. Each . . **$3.25**

No. K474 Capacity 120 lbs. Each . . **$4.50**

Pipe Cutting Chisels with Handles

No. K445 Each **$2.55**

Special Yarning Irons Concave Pattern

Hand forged from ¾ in. Tool Steel. Thickness of Points ⅛ to $\frac{3}{16}$ in.
No. K448 Each, only.....**68c**

5% For Cash or C.O.D. Orders

Hand Forged Calking Irons

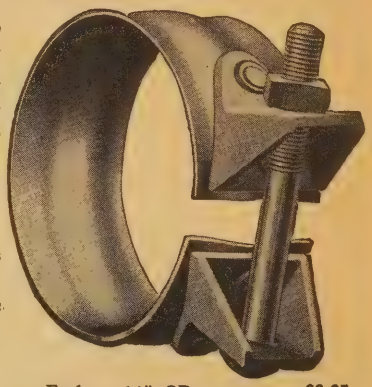
Made of ⅞-in. Octagon Steel with ¼, ½ or ⅝-in. points, as you specify.
No. K449 Each.....**66c**

ASBESTOS LEAD JOINT RUNNERS

Made of specially prepared pure asbestos rope, having a ferrule on each end and provided with a clamping device for fastening in place on the pipe.

No.	Size	For Pipe	Price	No.	Size	For Pipe	Price
K451	¾ in. sq.	2, 3 and 4	$1.89	K456	1¼ in. sq.	24	$10.66
K452	¾ in. sq.	4, 5 and 6	2.08	K457	1¼ in. sq.	36	12.22
K453	1 in. sq.	6, 8 and 10	3.64	K458	1¼ in. sq.	42	14.17
K454	1 in. sq.	10, 12 and 14	4.68	K459	1¼ in. sq.	48	16.38
K455	1¼ in. sq.	16, 18 and 20	9.62				

PLAIN BAND LEAK CLAMPS WILL EFFECTIVELY AND LASTINGLY SEAL PINHOLE AND SMALL LEAKS IN MAINS OR SERVICES—EITHER STEEL OR CAST IRON PIPE



Made of a hot-rolled steel band with two ears of certified malleable iron securely riveted on. In use the band is sprung around the pipe, a piece of rubber packing placed underneath the band and over the leak, and the band tightened down with the bolt.

Band Clamp offers a simple and inexpensive, yet very effectual method of permanently sealing leaks in pipe lines.

Up to 5″ bands are 2″ wide, larger sizes 3″ wide.

Order No. K175 Leak Clamps and give sizes.

NOTE HOW SMALL THE COST

Size Pipe	Each	Size Pipe	Each		
1″ to 2″	$ .65	6⅝″ C	$1.30	14″ OD	$2.25
2½″ & 3″ OD	.70	7⅝″ C	1.40	14″ OD	2.25
3″ & 3½″	.75	8″	1.55	16″ OD	2.50
4″	.80	9⅝″ C	1.65	18″ OD	2.75
5″	.85	10″	1.75	20″ OD	3.00
5⅝″ C	1.20	11⅝″ C	1.90	22″ OD	3.25
6″	1.25	12″	2.00	24″ OD	3.50
				26″ OD	3.75

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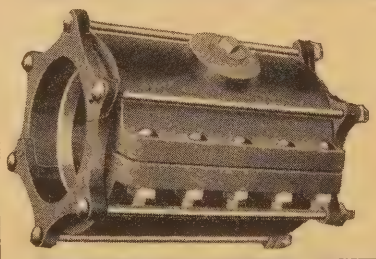
CAST IRON SPLIT SLEEVES WITH PARANITE GASKETS



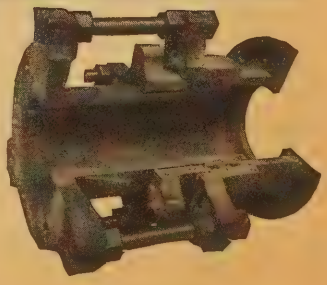
FOR USE OVER SCREW COUPLINGS

For use over screw couplings to shut off leaks that cannot be stopped with a regular leak clamp.

Cat. No.	Size	Weight Pounds	Price
K460	2″	53	$14.33
K461	3″	71	19.04
K462	4″	85	21.27
K463	5″	160	36.31
K464	6″	233	49.07
K465	8″	284	57.36
K466	10″	340	70.46
K467	12″	429	90.19

5% DISCOUNT FOR CASH OR C.O.D. ORDERS

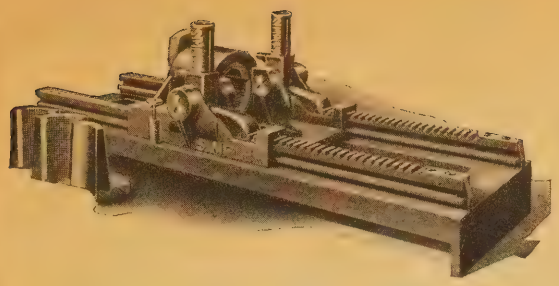
WATERWORKS SLIP JOINTS



These joints can be used to advantage wherever any waterworks fixture in a pipe line should be removed and replaced with a minimum of labor, expense, time and risk to the fixture. Especially useful in connection with the repair of large meters and in pumping station or filtration plant piping. Ruggedly made of the best materials for working pressures of 150 lbs. per square inch. When ordering specify stuffing box end flanged, bell or spigot, as desired. Also be sure to specify size.

No. K446 Slip Joints

3″	$20.00	8″	$45.00
4″	24.00	10″	60.00
6″	34.00	12″	80.00



SIMPLEX DOUBLE LEVERAGE PIPE PUSHING AND PULLING MACHINES

Latest Improvements! Reversible Carriages! You Don't Have to Reverse the Complete Pipe Pusher to Pull the Pipe

Regardless of the length of pipe pushed, the Simplex is never more than 30 inches from the working face—handles standard lengths or short lengths of pipe without buckling or binding. With a Simplex machine, *you can use longer lengths of pipe and save cutting, threading and coupling costs.* The Simplex will also serve for hundreds of additional jobs, irrespective of weather or soil conditions. Each Pusher is built to a high standard of mechanical excellence and is guaranteed for dependable, economical service.

From start to finish of a pipe pushing or pulling job, the multiplied man power of these Simplex machines saves time and money at every step. Digging is reduced to an absolute minimum and the former high cost of repairing and replacing broken streets, sidewalks, etc., is eliminated. Initial cost of the machine is very reasonable and is the only cost you have to pay. Usually, the first one or two jobs pays for the machine.

The Simplex Pipe Pusher can be operated by two or four men, depending upon soil conditions, and an exclusive and valuable feature is that when solid cribbing or blocking is difficult to obtain, it is then possible to hold the Pusher against the back pressure with one lever while the other lever is being operated. The two levers or sockets of Simplex Pushers can be operated singly, alternately or together, depending upon the size of the pipe, soil conditions and cribbing.

The Simplex Pipe Pusher has been especially designed for installing lead or iron pipe without digging, tunnelling or trenching. Of course, it is a known fact that lead pipe cannot be pushed or it will crush, but by using a piece of steel or iron pipe, the lead pipe can be drawn through and the result is a simple, speedy, efficient installation with less effort and less expense. Only one excavation is necessary—at the street main. The Pipe Pusher is placed in the basement in which an excavation is all ready and a piece of iron pipe is pushed out to the main. After iron pipe has been pushed to the main, the lead pipe is attached to it, the carriage is reversed and iron pipe pulled through.

If soil is of a loose, sandy type, another method of installing lead pipe is to push a piece of oversize iron pipe to the main and slide the lead pipe through by hand, anchor the lead pipe and pull out the iron pipe, leaving the lead pipe in place.

No. K405 Simplex Pipe Pusher for ¾", 1", 1¼", 1½" and 2" Pipe. With two Levers and two Extension Levers and one set of any size Pipe Jaws **$110.85**
Extra Sets of Jaws for the above, per set **9.60**

No. K406 Simplex Pipe Pusher for 2", 2½", 3" and 4" Pipe. With two Levers and two Extension Levers and one set of any size Pipe Jaws **138.35**
Extra Sets of Jaws for the above, per set **12.00**

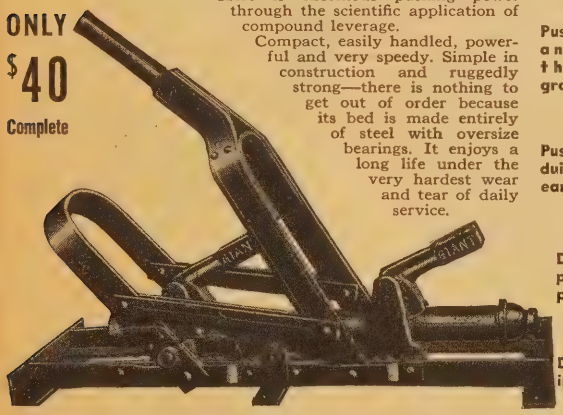
OUR PRICES INCLUDE A SPECIAL STEEL PILOT WITH EVERY SET OF JAWS

GIANT PIPE PUSHER

ONLY $40 Complete

Here is enormous pushing power through the scientific application of compound leverage.

Compact, easily handled, powerful and very speedy. Simple in construction and ruggedly strong—there is nothing to get out of order because its bed is made entirely of steel with oversize bearings. It enjoys a long life under the very hardest wear and tear of daily service.



In operation it is quickly and easily staked down. Does its work close to the bank, thus eliminating all possibilities of bending the pipe. Its pipe grip is positive and the release is absolutely automatic.

On an average it eliminates more than four-fifths of all trenching. It does away with digging trenches across lawns or highways or in places where trenches would be impossible.

A very low estimate of the Giant's speed capacity is three lengths of pipe per hour. Under varying conditions with various operators, it has pushed as high as five feet per minute.

No. K414 Capacity ½" to 1" Pipe, for short pushes only ..... **$ 40.00**
No. K415 Capacity ½" to 1¼" Pipe **70.00**
No. K416 Capacity ¾" to 2" Pipe **100.00**
No. K417 Capacity 1½" to 3" Pipe **150.00**
No. K418 Capacity 3" to 4" Pipe **200.00**

Other Sizes Quoted on Request

WITH IT YOU CAN

- Push water pipe and gas pipe through the ground
- Push electric conduit through the earth
- Draw out and replace damaged pipe
- Draw lead pipe into the ground
- Place electric cables underground
- Drive wells
- Push open stoppages in sewerage and drains
- Drain by blind molds
- Move machinery and buildings

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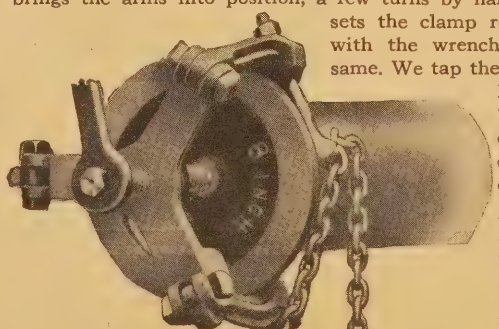
MAIN CLAMPS AND PLUGS

This is for use in testing mains, temporarily closing mains for the night, on account of fire, or for closing mains to branch openings. Or to be used in any emergency where you wish to plug the pipe for a short time.

It can be used to close the mains temporarily but the clamp can remain on as long as desired.

It is made of crucible steel and will easily hold a pressure of 200 pounds or more.

DESCRIPTION To place in position on pipe insert the plug with gasket, then hold the main screw against plug while the chain is slipped around the pipe and locked into chain hook. A few turns on the chain hook nut brings the arms into position, a few turns by hand of the main screw sets the clamp ready to be tightened with the wrench, which accompanies same. We tap the large plugs with one-half inch pipe plug. This is to allow escape of air, releasing water or connecting gauge, etc.



We have always sent the clamps out subject to approval and now that we are constantly receiving "repeat" orders from cities where they have been in use for some time, we are more than willing that you try same entirely at our risk.

You may not need all the plugs to set, therefore we quote them separately.

No. 1 Main Clamp, complete, less plugs $45.00
No. 2 Main Clamp, complete, less plugs 75.00
No. 3 Main Clamp, complete, less plugs 85.00

Plugs for No. 1		Plugs for No. 2		Plugs for No. 3	
4 inch	**$2.25**	12 inch	**$11.50**	18 inch	**$25.00**
6 inch	**3.50**	14 inch	**13.00**	20 inch	**30.00**
8 inch	**5.00**	16 inch	**20.00**	24 inch	**35.00**
10 inch	**7.75**				

Gaskets included with all plugs

Beautiful Granite Three Bubbler Fountain

ONLY **$49.95** COMPLETE

LESS **5%** FOR CASH WITH ORDER

One of the most popular drinking fountains in use in the U. S. today. Constructed of an attractive, smooth finish composition of marble and concrete. Designed to meet the need for a sturdy, durable fountain at an economical price.

Multiple head design with three bubblers, self-closing type or arranged for continuous flow, whichever you prefer. Fittings are of chrome plated brass, satin finished. Standard height 32 inches. Weight 210 pounds.

No. 480 Three Bubbler Fountain, continuous flow **$49.95**

No. 481 Same with Self Closing Valves **61.35**

A Pair of Distinctive Single Bubbler Styles

Beautiful Materials Attractive Design Durable Construction

Both of these popular types are constructed of the same marble-concrete material described above. Particularly suitable for installation in playgrounds, parks, street corners, etc. Also widely used in buildings of all kinds—village halls, schools, institutions and auditoriums. Exceptionally strong and well made. Comparable to fountains selling for twice the price. No. 540, shown at the left is a side stream model. Standard equipment includes self-closing valve and angle stop. Can also be furnished for continuous flow. No. 542 at the right is a center stream model, regularly furnished for continuous flow. Also available with self-closing valve. Weights are 140 pounds and 160 pounds respectively.

No. 540 Side Stream Fountain with self-closing valve and angle stop, chrome plated **$36.75**

No. 541 Same with continuous flow bubbler cup **$29.95**

No. 542 Center Stream Fountain with continuous flow bubbler cup, chrome plated **28.50**

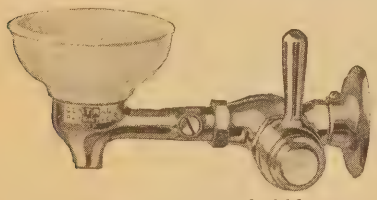
No. 543 Same with self-closing valve **31.95**

ANGLE STREAM BUBBLER

A very popular and efficient bubbler fixture that throws an angle stream. Provides perfect sanitation. Heavily chrome plated. Furnished with ¼-inch I.P. connection.

No. 530 Bubbler **$3.95**

WALL TYPE BUBBLER



A very popular wall type bubbler, vertical stream, with lever handle control. Heavily chrome plated. Furnished with 6-inch bowl, chrome plated brass or china. Fitted with ⅜ or ½-inch connection.

No. 533 With Brass Chrome Plated Bowl **$9.25**

No. 534 With China Bowl **8.85**

We will gladly ship any of this equipment on 30 days free trial, subject to your inspection and approval. Your satisfaction guaranteed at all costs.

PARAGON ANGLE STREAM BUBBLER

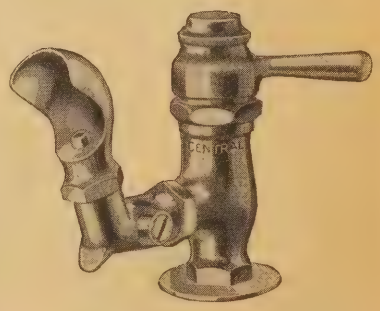
only **$10.50**

A Really Beautiful Fixture. Thoroughly Modern in Appearance.

A brand new wall type. Has angle stream bubbler for sanitation. Brass or china bowl, whichever you prefer. This type is in great demand in schools, institutions and public buildings. Easily installed. Furnished with either ½ or ⅜-inch connection. Makes an especially attractive installation.

No. 531 Paragon Bubbler **$10.50**

ANGLE STREAM BUBBLER



A fine, sturdy angle stream bubbler with lever handle shut-off. Complies with all Sanitary Codes. Beautifully chrome plated throughout and furnished with standard ⅜-inch I.P. connection.

No. 535 Angle Stream Bubbler .. **$7.95**

Street Shower Attachments for Fire Hydrants

These Street Showers provide happy, healthful recreation for the children on hot, summer days at any hydrant or other water outlet. They have been widely adopted by cities, towns, schools and clubs in all parts of the country. They are attached to the regular 2½-inch hydrant outlets and supply a gentle shower of cool, clear water over a semi-circular area approximately 50 feet in diameter. Yet they are extremely economical in the use of water because of their finely diffused spray and because the volume of the shower can be regulated while the hydrant is wide open.

Made of finest brass, heavily nickel plated. Aluminum coupling nut. Diameter of head 5¾ inches. Overall length 6 inches. Easily and quickly attached. Specify your hydrant threads when ordering.

No. 601 Street Shower with straight connection **$14.65**

No. 602 Same with 90° angle connection **15.65**

10% discount for lots of 5 or more.

Super Quality All Steel Letter Files at Money Saving Prices

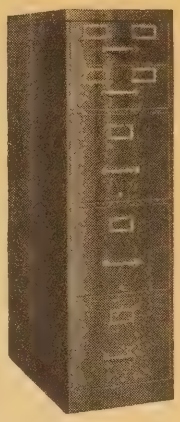
Four Drawer Letter Size only

$14.25

A quality line of serviceable letter files of all steel construction. Drawers operate on four rollers and each drawer opening is reinforced with pressed steel torque plates. Polished brass hardware. Made in four drawer construction, letter size or legal size. Also made in the combination style with three drawers for letters and two smaller drawers at the top for cards.

Combination Style only

$20.90



These files are built in the popular 25-in. outside depth. Drawers are equipped with adjustable trigger type followers, rods, brushed bronze handle and bronze label holder. Sturdily constructed with strong frame and heavy gauge steel throughout. Front edge of top is flush with case.

Beautifully finished in soft tone olive green baked enamel. Grained wood finishes in walnut or mahogany can be supplied at moderate extra cost. All files shipped set up.

No. 811 Four Drawer File, letter size **$14.25**
No. 812 Four Drawer File, legal size..... **18.95**
For Lock Controlling All Drawers, add $5.00 to above prices.

No. 813 Combination Unit with three drawers for letters and two drawers for cards, complete **$20.90**
No. 814 Same as above with lock controlling all drawers..... **26.90**

Above Prices are for Green; Walnut or Mahogany, $5.50 extra

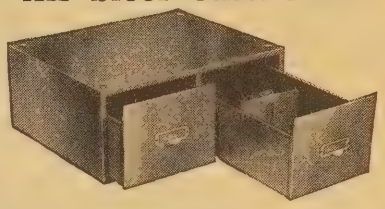
All Steel Lockers for Clothing Storage

These lockers are so beautifully smooth and modern in appearance that they harmonize with the dignity of the finest surroundings. Made of heavy gauge steel throughout and set up on twist-proof frames of steel angles and channels.

Each single tier locker has hat shelf, two ceiling hooks and three coat hooks. Double tier lockers give excellent clothing storage where space is limited. Each locker has three hooks as standard. Number plate is standard on all lockers. Regular finish is olive green baked enamel. Prices shown are per locker opening when purchased in groups of three or more. If you order two lockers, add 5% to prices. If you order only one locker, add 10%. All lockers shipped knocked down with simple instructions for erection. All lockers shipped with padlock attachment. If wanted with Yale built-in lock and two keys, add 65c.

No. 818 Single Tier Lockers		**No. 819** Double Tier Lockers	
9x12x60 in.	**$5.32**	9x12x30 in.	**$3.20**
12x15x60 in.	**6.28**	12x18x30 in.	**3.65**
18x18x60 in.	**8.12**	15x15x36 in.	**4.54**
12x12x72 in.	**6.83**	15x18x42 in.	**5.36**

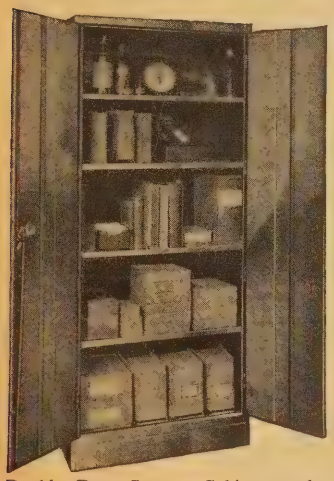
All Steel Card Files



Sturdily constructed of the finest furniture steel. Rubber feet. Drawers operate very easily. Combination handle and label holder of brass. Filing space for 1000 cards in each drawer. Olive green baked enamel finish.

No. 888 One Drawer for 3x5 cards..... **$1.50**
No. 889 One Drawer for 4x6 cards..... **1.95**
No. 890 One Drawer for 5x8 cards..... **2.50**
No. 891 Two Drawers for 3x5 cards..... **2.75**
No. 892 Two Drawers for 4x6 cards..... **3.95**
No. 893 Two Drawers for 5x8 cards..... **4.95**
Locks $1.00 per drawer extra. Base, 16 in. high, $3.95.

Sturdy All Steel Storage and Wardrobe Cabinets



Double Door Storage Cabinet made of heavy autobody steel with the side and frame electrically welded into one solid piece. Four or five shelves, adjustable without the use of tools. Equipped with chrome plated automotive type handle with built-in cylinder lock and two keys. 72 in. high, 30 in. wide and 18 in. deep.

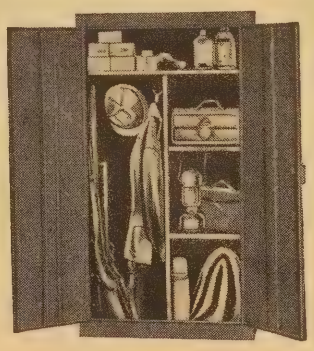
Built to do a real tonnage job in storing office supplies, small articles, tools, etc. Available in green or wrinkled brown enamel finish. Specify your choice when ordering.

No. 894 .....**$19.95**

Single Door Combination Wardrobe and Storage Cabinet. Ample space for guns and similar equipment of the sportsman or Police officer. Height of gun compartment 52 in. Ample storage of six guns and other equipment. Three hooks for caps and coats. 72 in. high, 32 in. wide and 18 in. deep.

Built of heavy autobody steel, electrically welded into one piece. Made rugged enough to insure practically lifetime service and satisfaction. Chrome plated automotive handle with strong built-in cylinder lock and two keys. Green or wrinkled brown enamel finish. Specify which.

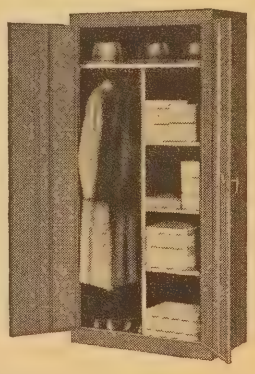
No. 895 .....**$21.50**



The ideal Sportsman's cabinet. Double door. All shelves welded in place. Gun compartment 52 in. high, with rack for four guns. Three coat hooks. Overall size of cabinet, 63 in. high, 32 in. wide, 12 in. deep.

Specially designed for safely storing all equipment of the Policeman or Sportsman. Made of heavy autobody steel, electrically welded into one piece. Chrome plated automotive type handle. No lock. If flat key lock is desired, add $1.25 to price shown below. Cabinet is available in green or wrinkled brown finish. Specify your choice.

No. 896 .....**$12.50**



Combination wardrobe and storage cabinet with coat hanger bar in left compartment under top shelf and three adjustable shelves in right compartment. 72 in. high, 32 in. wide, 18 in. deep. Deep and roomy, this cabinet is built to serve as a practical clothes closet for hats, rubbers and all apparel. Made of heavy sheet steel, electrically welded into one piece. Also equipped with chrome plated automotive type handle with built-in cylinder lock and two keys. Green or brown enamel finish.

No. 897 .....**$17.95**

WE ARE ALWAYS AT YOUR SERVICE—WIRE US COLLECT ANY TIME ABOUT ANYTHING

NEW! RHODIUM PLATED BADGES

A Beautiful New Glistening Platinum Finish That Will Last a Lifetime

Your Choice of Any Style Badge, $2.50

We present on this page, a few of our most popular style badges which are now available in the wonderful new rhodium finish. Rhodium is a derivative of platinum and ounce for ounce it is much more expensive than fine gold. It resists practically every known acid, with the result that a badge of this finish is practically non-tarnishable. Because of this acid resisting quality, rhodium is supplanting nickel and chromium in the jewelry trade in the plating of many of the small, medium priced items. We strongly recommend rhodium as a badge finish because of its durable and long lasting qualities. In appearance it is similar to chromium, although the finish is richer, more dignified and much more distinctive.

When ordering, be sure to specify exact lettering desired, also centerpiece design. Also, be sure to select a badge which will accommodate all of the lettering you specify.

For Quality, Service and Dependability, Order from General City Service Co.

FRANZITE UNBREAKABLE REVOLVER GRIPS MADE IN SIX BEAUTIFUL SOLID COLORS

These grips are molded from Cellulose Acetate, a new plastic compound of horn-like toughness. They are unsurpassed for strength, beauty and wear. They are even more practical than walnut, ivory and pearl grip handles because they are unbreakable. Will not crack, chip or split even under the hardest abuse, and are weather-proof and will withstand moisture, heat and cold.

Franzite Grips are duplicates of the standard factory grips for shape, size, thickness and checkering. Molded to exacting standards, they will fit your revolver or pistol perfectly. Can be instantly installed or removed. No altering of gun necessary.

Franzite Grips give a sure non-slip hold because the checkering provides a uniform gripping surface. Moderate in price and very similar in appearance to ivory, walnut and pearl.

Made in six beautiful solid colors with a rich, lustrous, permanent finish. 1. Ivory 2. Pearl 3. Walnut 4. Onyx 5. Mottled black and white 6. Petrified wood. Order **No. 872** Franzite Revolver Grips and specify make, model and caliber of your gun.

FOR COLT REVOLVERS AND PISTOLS

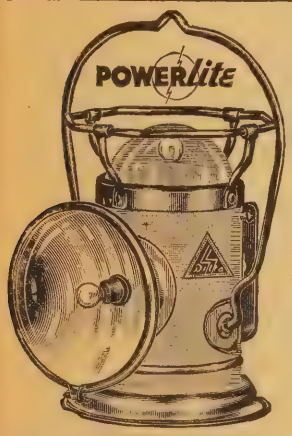
.25 Automatic Pocket Model	$2.00	Woodsman	$2.50	Officers' Model Target	$2.50
.32 and .380 Automatic Pocket Model	2.00	New Service	2.75	Police Positive Special	2.25
.38 Automatic Super	2.50	New Service Target	2.75	Detective Special	2.25
.45 Automatic Gov't Model	2.50	Army Special	2.50	Single Action Frontier	2.75
		Bisley Model	3.00	Official Police	2.50

FOR SMITH & WESSON REVOLVERS

.32 Hand Ejector	$2.00	Military & Police, square butt	$2.50	.44 Military	$2.75
.22/32 and .38/32 Kit Guns	3.00	.38/44 Heavy Duty	2.75	1917 Army	2.75
Military & Police, round butt	2.25	.38/44 Outdoorsman and K22	2.75	.357 Magnum (Magna Style)	3.25

Also made for Hi-Standard, Ortgies, Luger and Mauser pistols. Write for prices. Also made with extension to convert round butt to square butt. Price $3.00.

5% DISCOUNT FOR CASH OR C.O.D. ORDERS



DOUBLE REFLECTOR POWERLITE

Two lights—spot beam or flood rays—both on one switch. Both top and side lights operate from a simple, double action switch. For Police Department use the top lens is usually supplied in red for emergency warning purposes. Valuable at accidents or large fires where crowds gather. This feature is optional, however. This Powerlite is furnished with any lens color combination desired.

Our price includes, de luxe rubber covered bail, lens guard and spring bracket.

No. 133 Powerlite **$3.20**

Batteries **37c** Bulbs **13c**

A More Powerful Grip than Any Human. The Protector of Law and Order!

$5.95

THE IRON CLAW

Made of highly polished alloy and steel, strong and durable, may be carried in the hip pocket or the side overcoat pocket. Can be used in a flash to subdue an unruly prisoner, while a slight twist to the right increases the tension of the grip. Approved and used by State, Municipal and Federal officers.

No. 913 Iron Claw **$5.95**

$3.75

New Police Officer's Sam Browne Belt with Detachable Belt Hook
No. 664 . . $3.75

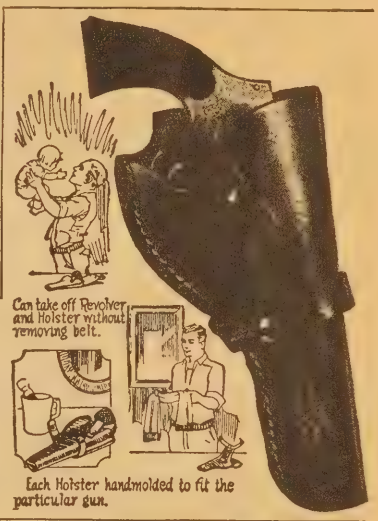
De Luxe Sam Browne Holster
No. 515 . . $2.85

FOR QUICK SERVICE WIRE COLLECT. WE PAY ALL CHARGES

The Most Practical Holster Made

The new Snap-Off style holster—made for safety and convenience. An exclusive feature permits holster to be taken off without removing belt. Your gun can't jar loose. Safety strap fits snugly over trigger guard and is easily unfastened. Will not interfere with quick draw. Made of dark brown heavy saddle skirting or black if desired. Give gun data.

No. 837 Snap-Off Holster **$2.95**
No. 838 Same with laced edges **3.55**



Delivers a stunning blow without crushing or fracturing skull. Shot-filled, hand sewed, braided from one piece of leather. 8 inches long. Weighs 9 ounces.

No. K133 Billy **$1.75**

DETROIT STANDARD POLICE BILLY

HERCULES SENIOR AND JUNIOR TEAR GAS PROJECTORS

The .410 Gauge Senior

Fires powerful .410 ga. cartridge containing three times as much gas as the .38 cal. Overall length 5⅞ in. Black enamel finish. Gold clip. Spur safety lock. Weight 2½ oz.

No. 934 Hercules Senior **$5.00**
Cartridges, each ..... **.60**

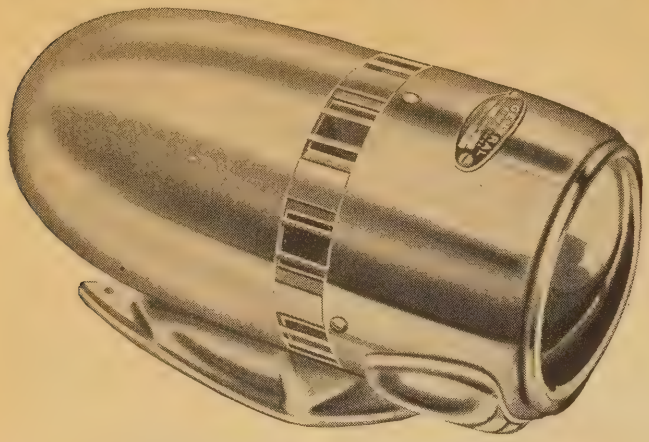
The .38 Caliber Junior

Fires the regulation .38 S&W special cartridge. Overall length 4⅞ in. Black enamel finish. Spur safety lock. Gold clip. Weight 2 oz.

No. 932 Hercules Junior **$4.00**
Cartridges, each ..... **.30**

WE ARE ALWAYS AT YOUR SERVICE—WIRE US COLLECT ANY TIME ABOUT ANYTHING

GENERAL HEAVY DUTY POLICE SIREN WITH FLASHING RED LIGHT



A new and powerful heavy duty streamlined siren with a deep, roaring tone, long roll and a brilliant red flasher that floods the streets with warning light. A new siren shriek that can be heard for blocks ahead. This combination of light and sound commands instant attention. The double action gives greater assurance of safety—saving valuable lives and property.

Heavily chrome plated throughout, the sleek lines and streamlined appearance of this new heavy duty model are symbolic with speed and safety. It visibly and audibly commands the right of way. At our low, money saving price to Police Departments, we consider it the greatest bargain in siren history. Let us ship you one on approval. No obligation to purchase unless fully satisfied.

Dimensions: Height 8¼-inches, length 14¼-inches. Each siren shipped complete with switch and cable, ready to mount.

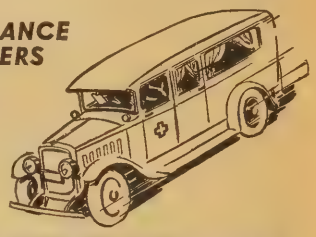
No. 351 General Heavy Duty Police Siren with Flashing Red Light **$33.00**

SPECIAL LENSES IF DESIRED

We can supply this siren with specially lettered lenses for police squad cars, fire apparatus or ambulances at an additional cost of **$2.50.** Red lens lettered FIRE, green lens lettered POLICE or red lens with a white cross for ambulance installations.

ATTENTION! AMBULANCE OWNERS

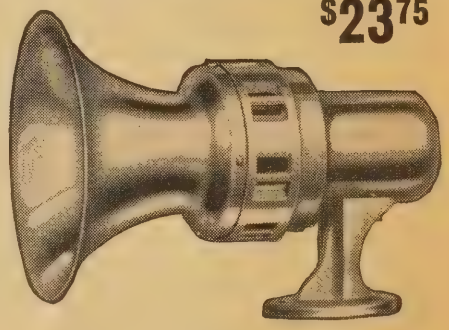
The General Streamlined Flashing Light Siren is fine for ambulance work. We have supplied many of these units with the white cross lens for this purpose and have received scores of letters from ambulance owners and hospitals praising the siren's perfect performance and beautiful appearance. Order one for your ambulance today. When you receive it, we know you'll agree with us that it's the biggest value for the money you've ever seen.



TELEGRAPH COLLECT—WE PAY ALL CHARGES

General High Speed Police Car Siren

$23.75



The General High Speed Siren is a combination of the finest mechanical advantages, superlative workmanship and quality materials available today. Conservative in price and appearance but exceptional in performance, this siren cannot be matched for value. Available with projector, as illustrated, or with flat front for underhood mounting where space is a factor.

Full chrome plated throughout. Dimensions (with projector) 12½-inches long by 8¼-inches high (without projector) 8-inches long by 7½-inches high. Price includes switch and cable.

This type siren has been standard with many of the large Metropolitan Police Departments for many years. Sturdy, strong and reliable, it is guaranteed to give many years of good service with a minimum of attention. A real value at our special low price to all Police Departments. Satisfaction guaranteed or your money back.

No. 370 General High Speed Police Car Siren **$23.75**

No. 371 Same with Flat Front for Underhood Mounting **21.50**

5% DISCOUNT FOR CASH OR C.O.D. ORDERS

Streamlined Squad Car Siren

Only $15.00

A Low Price Special for Chiefs' and Volunteers' Cars

A new streamlined siren, low in price, but combining highest quality with modern lines and attractive appearance. The last word in tone quality, dependability and top performance. Chiefs and Officers! Here is the protection to which you are entitled. Assure your own safety, as well as that of your community, by investing in a siren that will identify you. It paves the way through traffic. Gets you there quickly and safely.

Not only is this new Streamlined Siren constructed for durability and to withstand all abuse, but its attractive and modern appearance will add distinction to any vehicle. It's troubleproof. Nothing to go wrong or get out of order. Consumes less current than a car heater or radio. Ideal for any officer or City Official whose car is often used in emergency service.

Available in two distinctive models, chrome plated or black enamel finish. Measures 8-inches in length, 5¾-inches in height and 4⅜-inches in diameter. Each siren is shipped complete with switch and cable ready to mount. Take advantage of this sensational siren bargain and send your order today. Your money promptly refunded if you're not satisfied.

No. 348 Streamlined Siren, Chrome Plated **$15.00**

No. 349 Streamlined Siren, Black Enamel **14.00**

REMEMBER OUR GUARANTEE

Every General product is unconditionally guaranteed to satisfy you. If you find anything not as represented or unsatisfactory for any reason, we want you to return it and your money will be promptly refunded. Our reputation for honesty and integrity, built up over a period of 36 years in the Fire Equipment business, is your assurance of the A1 quality of every item described.

New! Pacemaker Knapsack Fire Tank

With Solid Brass Tank 5 Gallon Capacity only $18.20

NOTICE THE SPECIAL, FORM-FITTING VENTILATION SHIELD IN THE ILLUSTRATION ABOVE. THIS GIVES A CONSTANT CIRCULATION OF AIR BETWEEN THE TANK AND THE WEARER'S BACK. IT PROTECTS THE BACK FROM THE COLD WATER AND MOISTURE IN THE TANK AND KEEPS IT WARM AND DRY. THE SHIELD FITS THE BACK PERFECTLY AND ASSURES COMFORT.

READ THESE IMPORTANT NEW FEATURES

- **Form-Fitting Ventilation Shield**—Insures Dryness, Warmth and Comfort
- **Heavy Solid Brass Pump with Flared Intake Piston**—Permitting Use of Larger Intake Opening Without Increasing Weight and Size of Pump
- **Handle Located in Exact Center of Tank for Balance**—Also Can Be Swung Downward Exposing Entire Filler Cap Opening for Quick Filling of Tank
- **Heavy Brass Construction Throughout**—Resists Corrosion and Wear—All Tank Joints Double Locked and Soldered for Strength

Built to the specifications of the U.S. War Department for forestry and field service, the PACEMAKER is the newest and most modern development in a Knapsack Fire Tank. Completely streamlined throughout, every feature is thoroughly appreciated by fire fighters. The ventilation shield insures perfect comfort and also protects the operator. The 5-gallon tank is easily and quickly filled through the large, quick-locking, leakproof brass filler opening. Sediment or rubbish is prevented from entering the tank by the removable brass strainer. Filler cap is chained to tank to prevent loss. A strong baffle plate is riveted to inside of tank. Best grade special half-inch hose is furnished for connecting pump to tank. The brass pump is instantly snapped in and out of the carrying handle. Heavy, adjustable snap end carrying straps 1¾″ wide are furnished. All carrying strap rings are strongly riveted to tank and will not break loose.

The PACEMAKER is available in either solid brass or galvanized 5-Gallon tank. However, we strongly recommend the BRASS TANK for Fire Department service.

No. K220 PACEMAKER Knapsack Fire Tank, complete as shown above with 5 gallon, form fitting solid brass tank.....$18.20

No. K221 PACEMAKER Knapsack Fire Tank, complete as shown above with 5 gallon, form fitting galvanized tank.....$14.40

TELEGRAPH COLLECT—WE PAY ALL CHARGES

FIRE DEPT. INSIGNIA PLATE

Here is a beautiful FIRE DEPT. sign for your private car. These signs are made of a special aluminum alloy, cast in a permanent mold, with raised letters and border highly polished. The letters and border are natural aluminum color and the background of the plate is a brilliant Fire Department Red.

Identify yourself and avoid delays with a FIRE DEPT. sign on your car. Help everyone to recognize you are a Fireman when minutes are important. Regular $2.00 value.

No. K199 Fire Dept. Plate.....98c

MUNICIPAL WATCH CLOCK

Here is a Municipal registering system with station boxes for the night watch in cities. Provides a perfect record of the night watchman's activities. This record is so completely safeguarded from tampering that its report of the watchman's movements is absolute and final.

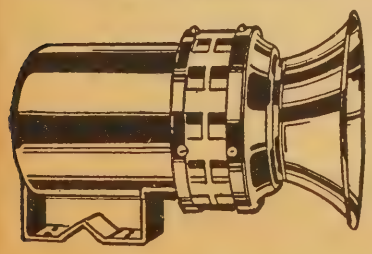
During the night hours there is no more important piece of equipment than one of these Municipal Watch Clocks. It provides a definite check on the effectiveness of the protection of the property, especially against the hazard of fire. Station boxes can be placed at various key locations throughout the town which will assure the entire community of efficient night watch and patrol at all times.

The clock itself contains a paper dial which records the exact time each station key is inserted. These nightly records can be preserved and referred to whenever necessary.

Sturdily constructed cast aluminum case which houses the mechanism. Further protected by a leather pouch, as illustrated. Shoulder strap also included.

No. 390 Municipal Watch Clock.....$60.00
No. 391 Station Boxes, each..... 2.50

GENERAL CITY SERVICE JUNIOR SIREN



FOR CHIEFS' AND VOLUNTEERS' CARS

A light, compact automotive siren which can be mounted under the hood, on the fender, in front of the radiator or wherever you prefer. Operates from your regular 6-volt automobile battery and doesn't use any more current than your horn.

Equipped with specially developed, high speed electric motor. Waterproof and weatherproof. Measures 7½″ by 5¾″. Sound projector is 5⅛″ in diameter. Every Volunteer should have one of these special sirens for his private car. Note our special low prices and remember—your money back if you're not satisfied.

No. 123 General City Service Jr. Siren, Chrome Plated Finish.....$8.95
No. 124 General City Service Jr. Siren, Black Enamel Finish..... 7.95

Buy Direct from General—30 Days Free Trial—5% Discount for Cash or C.O.D. Orders

FIRE EXTINGUISHERS

NEW HEAVY DUTY S.O.S. FIRE GUARD ONE-QUART FIRE EXTINGUISHER

Definitely Guaranteed for Two Years Against Leakage and Pump Failure

RED STAR

Underwriters' Approved 2½-Gallon Soda and Acid Type

Standard with all Fire Departments. Operates by simply turning upside down and directing stream on the fire. Operation is instant. Constructed of best grade cold rolled Fire Extinguisher copper, highly polished and lacquered to prevent tarnishing. Inside and all interior parts protected by special corrosion-resisting alloy. Seams are sealed by an exclusive "Sure Sweat Process," insuring maximum safety. Quickly extinguishes fires in wood, paper, textiles and similar materials.

The top wheel cap of the Red Star will withstand a crushing test of 7000 pounds. Back vertical seam is riveted and sealed with General's patented "Sure Sweat Process." The dome is double swedged over the seam, making an absolutely safe and tight seal.

The cage in the Red Star is of super construction, so designed as to make the bottle easily removed for refilling. The body of the cage is made of a solid piece of heavy copper which withstands pressure tests of over 550 pounds per square inch. The hangers are extra large and recessed to provide a positive means of preventing the Extinguisher from slipping sideways. Eliminates costly delay in removing Extinguisher from bracket.

The entire Extinguisher is finished in a handsome, long-lasting luster. We have tested many grades of lacquer by subjecting finished Extinguishers to the elements for a period of several months on the roof of our factory, and have developed a grade that, combined with our unique polishing method, gives our Extinguishers a beautiful and long-lasting finish.

No. 345 Red Star 2½-Gallon Soda & Acid Extinguisher, complete with charge and hanger... **$8.79**

Stops Fire Like Magic

The finest 1-quart vaporizing liquid Extinguisher on the market today. The pump is double acting, expelling the fluid on both the up stroke and the down stroke, thus assuring a constant stream of fire-killing liquid. Positive action discharge nozzle. Solid bronze cap. Strong brass shell with no corrugations. Polished brass, lacquered finish. Will stand constant exposure without tarnishing.

The bracket is of the positive action type, in which the Extinguisher is readily accessible by pushing the plate indicated. At the same time the Extinguisher is held positively in place by a spring hook mechanism. This construction affords easy operation along with definite holding means.

The S.O.S. Fire Guard comes in two handy sizes, 1-quart and 1½-quart. Shipped complete with fluid and bracket. Its fluid will not freeze at temperatures as low as 50° below zero. Take advantage of our special low price to Fire Departments. A real bargain.

No. 333 S.O.S. Fire Guard, 1-Quart Extinguisher complete with bracket.... **$7.95**

No. 334 Same, in 1½-Quart size..... **$8.95**

FLOAFOME

Underwriters' Approved 2½-Gallon Foam Type

This is the regulation Foam Type Extinguisher as used by all Fire Departments. Operates same as the Soda & Acid type, simply by inverting and turning stream on the fire. Operation is instant. A heavy blanket of tough, fire-killing foam is discharged which quickly smothers the fire. Will immediately extinguish fires in gasoline, oils, greases and other rapidly burning materials. Also effective on fires of wood, paper, textiles or similar substances.

For all types of fires in these substances or in similar materials such as kerosene, naphtha, paint, tar, grease, wax, shellac, lacquers and chemicals, the Floafome is invincible. The chemicals, when mixed by tipping the Extinguisher over, will produce approximately 22 gallons of thick foam that flows fast over burning liquids, clinging to the surface and smothering the fire by excluding the oxygen from the liquid.

The construction of the Floafome is the same as that of the Red Star except that an inner chamber is provided instead of an acid bottle and bottle cage. The inner chamber used in the Floafome is made from the same long-lasting copper as used in the balance of the Extinguisher, assuring a lifetime of efficient service.

Every Fire Department should have at least one or two Foam Extinguishers on hand to combat burning liquid fires. We offer our world famous Floafome to you at the lowest price in its history. Take advantage of this exceptional offer and send your order today.

No. 347 Floafome 2½-Gallon Foam Type Extinguisher, complete with charge and hanger... **$10.45**

We Are One of the World's Largest

AT LOW NET PRICES

ALASKAN

Underwriters' Approved 2½-Gallon Non-Freeze Pump Type

Alaskan liquid will not freeze at temperatures as low as 40° below zero. This solution is also more effective on fires than ordinary water. We highly recommend this type for use in unheated buildings or open yards, because of its non-freezing qualities. The extinguisher does not require annual recharging.

Especially adapted to fire apparatus as it is a non-splash type and there is no danger of accidental discharge. Extensively used for winter service on fire apparatus when temperatures are too low to carry the regular Soda & Acid type Extinguisher.

Finely constructed of best grade cold rolled Fire Extinguisher copper, highly polished and lacquered. Inside and all interior parts are protected with a special corrosion-resisting alloy. The pump is of all-brass construction, double-acting and non-corrosive. Discharges an accurate, powerful 45 foot stream which can be turned on and off at will. This feature eliminates wasting of fluid and excessive water damage. While the Extinguisher is in use, the supply of liquid may be continuously renewed, thus eliminating any recharging delay.

Non-Freeze Extinguishers are an essential part of every well-equipped Fire Department's fire fighting equipment. Many occasions arise where the use of this particular type of Extinguisher is not only advisable but necessary in order to gain results. The Alaskan is a bargain at our new, special low price to all Fire Departments.

No. 357 Alaskan 2½-Gallon Non-Freeze Pump Type Extinguisher, complete with charge **$13.90**

PROTECTOR

Underwriters' Approved 5-Gallon Non-Freeze Pump Type

The design of the Protector is the same as that of the Alaskan, but the tank capacity is exactly double. Fluid will not freeze at temperatures as low as 40° below zero and the Extinguisher does not require annual recharging. The Protector is recommended for use in unheated buildings, lumber yards, mines, barns and other outside locations requiring fire protection. Its non-splash feature makes it especially desirable for fire truck use. No danger of accidental discharge. Used by many Fire Departments for winter service on apparatus.

Finely constructed of heavy galvanized steel. Tank is coated on the inside to resist corrosion. Pump is all-brass, double acting and non-corrosive. Throws out a powerful 45-foot stream which can be shut off and resumed at any time. No wasting of fluid or unnecessary water damage.

Body of the Extinguisher is neatly finished in Fire Department red enamel. For situations where greater Extinguisher capacity than the usual 2½ gallons is required, the Protector is without equal. It is simple in construction, easy to operate, strong and well made. The cost is low and the capacity large.

Many Departments prefer it to the knapsack type pump for fighting forest fires because of its added capacity. It is also easier to refill and has more pressure because of more efficient pump action.

No. 358 Protector 5-Gallon Non-Freeze Pump Type Extinguisher, complete with charge **$14.75**

NON-SPLASH

2½-Gallon Soda and Acid and Foam Apparatus Types

We make both the Soda & Acid and the Foam type Extinguisher in a special non-splash construction for use on Fire Apparatus. A valve-in-head arrangement is provided which prevents discharging of the fluid if the Extinguisher is accidentally jolted.

Our Apparatus type Extinguishers are also equipped with a carrying strap so that they may be easily removed from the truck and carried to the scene of the fire.

No. 363 Non-Splash 2½-Gallon Soda & Acid Extinguisher, Apparatus Type, Polished Copper **$15.50**

No. 364 Same as above, Chrome Plated $16.50

No. 368 Non-Splash 2½-Gallon Foam Extinguisher, Apparatus Type, Polished Copper..... **$17.50**

No. 369 Same as above, Chrome Plated $18.50

FOR THE WORLD'S LOWEST PRICES ON ALL TYPES OF APPROVED FIRE EXTINGUISHER RECHARGES, TURN TO PAGE 63

Manufacturers of Fire Extinguishers

GENERAL CITY SERVICE CO., DETROIT, MICHIGAN

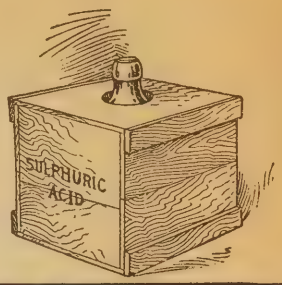
Bicarbonate of Soda—Only 3½ cents per pound

Our Bicarbonate of Soda is strictly fresh stock, shipped to you direct from the warehouse nearest your town to save you freight. Chemical tanks on Fire Apparatus require frequent charging and in order to insure positive action and best results only the finest grade of Soda should be used.

General is one of the largest manufacturers of Fire Extinguishers and Chemical Recharges in the world. We buy only the purest grade of Soda and because we buy in such large quantities, we are able to offer it to you at a substantial saving. All shipments made within 24 hours after your order is received.

No. 377 Bicarbonate of Soda, 400 lb. barrel.....$13.80
No. 378 Bicarbonate of Soda, 112 lb. keg..... 3.80

Highest Grade Full Strength Sulphuric Acid

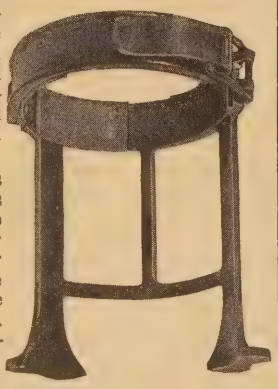


Our Sulphuric Acid is guaranteed full strength, 66 degree test. Finest grade obtainable for Chemical Engine recharging. Shipped to you out of new, fresh stock from the nearest warehouse to your town.

In order to obtain best results from your Chemical Engines, only the best grade of full strength acid should be used. Ordinary commercial grades of acids are not powerful enough to act as a satisfactory gas generator. Be sure you buy only genuine full strength Sulphuric Acid. General, as a manufacturer of Chemical Engine and Fire Extinguisher recharges, carries acid manufactured to specifications. Also, because we buy in such quantities, we are in a position to offer it to you at prices which save you money. Immediate shipment made of all orders. $5.00 deposit required on carboy which is refunded when carboy is returned.

No. 379 200 lb. Carboy of Sulphuric Acid.....$7.25

Quick Action Holders for Apparatus Type Extinguishers



The regulation holder for mounting a Fire Extinguisher on the running board of your apparatus. Made of finest tempered steel throughout. Latest and most improved type. Lined on inside with leather to prevent marring and rattling.

The toggle clamp fastener has been specially designed for this particular type holder. It is so constructed that the Extinguisher can be easily released. The holder itself occupies a very small space on the running board as flange for attaching is on the inside. Handsomely finished in Fire Department red enamel.

No. 921 Holder for 2½ Gallon Extinguisher.....$5.95
No. 922 Holder for 5 Gallon Extinguisher..... 7.95

TELEGRAPH COLLECT—WE PAY ALL CHARGES

Pneumatic Acid Pump

$8.95

Operates much faster than an ordinary acid syphon, as it puts the proper pressure on top of the liquid to force it out of the continuous lead pipe in a full stream which is smooth and absolutely free from spurts from start to finish.

With this pump it is possible to fill bottles with small neck openings without the use of a funnel. The capacity of the pump is approximately two gallons per minute, however this can be increased by squeezing the bulb more rapidly. By the use of the hand bulb it is impossible to generate a dangerous air pressure inside of the carboy. Still another advantage of the bulb is that it makes the device compact and easily transferred from one container to another. When not in use the pump can be hung upon a bracket which we include with each shipment.

No. 332 Acid Pump.....$8.95

APPROVED EXTINGUISHER RECHARGES AT LOWEST COST

ABSOLUTELY
FRESH
STOCK

As a manufacturer of Fire Extinguishers, General is able to offer a complete line of Extinguisher Recharges at low money-saving prices to all Fire Departments. Check our prices against others and you will see that we are saving you, in some cases, as high as 100%.

Remember, also, that these are the same superior Chemical Recharges we use in our own Extinguishers. We have conducted exacting tests of every chemical we use in our own scientific laboratories and are using the finest grade of chemicals obtainable in our Recharges.

When placing your order, give us the name, make and size of your Extinguisher.

No. 665 2½ Gallon Soda-Acid Recharge, each.....$ .25
No. 666 Same, in lots of one dozen, each..... .21
No. 667 2½ Gallon Foam Recharges, each..... .67
No. 668 Same in lots of one dozen, each..... .62
No. 707 2½ Gallon Calcium Chloride Recharge, each..... .75
No. 708 5 Gallon Calcium Chloride Recharge, each..... 1.42
No. 744 40 Gallon Soda-Acid Chemical Engine Recharge..... 2.47
No. 745 40 Gallon Foam Chemical Engine Recharge..... 5.15

S. O. S. FIRE GUARD FLUID

The Underwriters Laboratories recommend for the most efficient and best results that only fluid made to definite specifications be used in vaporizing liquid type Fire Extinguishers. S.O.S. Fire Guard Fluid is manufactured and produced to strict specifications. It will not freeze at temperatures as low as 40° below zero. DO NOT USE ordinary carbon tetrachloride in your extinguisher, no matter what you are told about its relative degree of strength. Even FULL STRENGTH carbon tetrachloride is not made for fire extinguishing purposes and will corrode your extinguisher. S.O.S. Fire Guard Fluid is a quality ONLY. When you purchase S.O.S. Fire Guard Fluid it is with the assurance it is the highest quality Fire Extinguisher fluid on the market.

No. 442 S.O.S. Fire Guard Fluid, quart can.....$ .62
No. 445 S.O.S. Fire Guard Fluid, gallon can..... 2.57

Replacement Parts for Soda-Acid and Foam Extinguishers

The parts and prices listed below cover only replacements for our 2½ Gallon Red Star Soda-Acid and Floafome Foam Extinguishers. However, we can supply parts for any extinguisher. Write for prices, giving name, make and type of Extinguisher for which parts are desired.

2½ Gallon Red Star Soda and Acid Extinguisher Parts

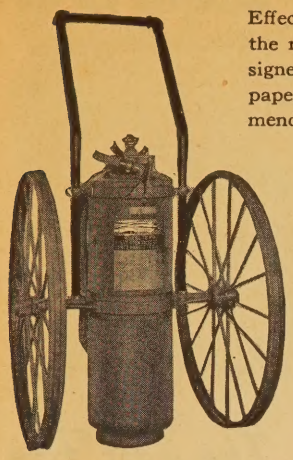
No. 610 Acid Bottle.....$ .15
No. 611 Acid Bottle Cage..... 1.20
No. 612 Wheel Cap..... 1.75
No. 613 Hose Assembly..... .95
No. 614 Rubber Gasket..... .10
No. 615 Plain Nozzle..... .20
No. 616 Hanging Bracket..... .10
No. 617 Lead Stopple..... .15

2½ Gallon Floafome Foam Type Extinguisher Parts

No. 618 Inner Container.....$2.50
No. 619 Lead Stopple..... .60
No. 620 Wheel Cap..... 2.00
No. 621 Hose Assembly..... .95
No. 622 Rubber Gasket..... .10
No. 623 Plain Nozzle..... .20
No. 624 Hanging Bracket..... .10

Buy Direct from General—30 Days Free Trial—5% Discount for Cash or C.O.D. Orders

40 GAL. SODA-ACID CHEMICAL ENGINES



Effective at distances of 40 to 60 feet from the nozzle, these engines are especially designed for use on fires in wood, textiles, paper, alcohol, etc., but are not recommended for oils or paints.

They are especially suitable for warehouses, institutions, factories and large buildings. Equipped with 50 feet of heavy duty chemical hose and shutoff nozzle. Shipped complete with charge.

Overall width of Indoor Type, 32 inches; shipping weight, 600 lbs.

Overall width of Outdoor Type, 45 inches; shipping weight, 625 lbs.

Approved by Underwriters' Laboratories, Inc.

No. K195 Indoor Type 40 Gal. S&A Engine **$187.00**
No. K196 Outdoor Type 40 Gal. S&A Engine **210.00**

40 Gallon Foam Chemical Engines

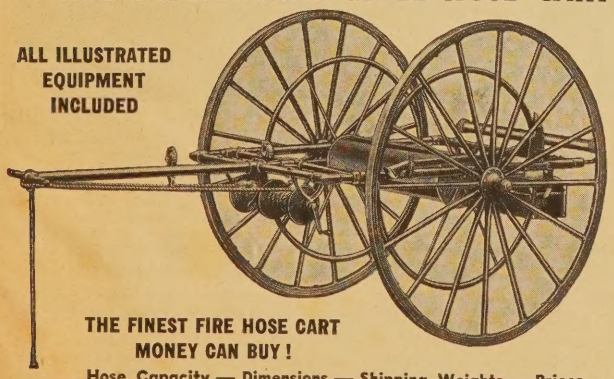
Generating about 300 gallons of foam and with an effective range of 40 to 60 feet from the nozzle, this engine will extinguish a surprisingly large fire. The foam will form a protective blanket against reignition. Equally effective on gasoline, oils, paints, wood, textiles, etc.

Equipped with 50 feet of heavy duty chemical hose and shutoff nozzle and shipped complete with charge. Overall width of Indoor Type, 32 inches; shipping weight, 650 lbs. Overall width of Outdoor Type, 45 inches; shipping weight, 675 lbs. Approved by Underwriters' Laboratories, Inc.

No. K197 Indoor Type 40 Gal. Foam Engine **$214.00**
No. K198 Outdoor Type 40 Gal. Foam Engine **239.00**

FIRE DEPARTMENT STYLE HOSE CART

ALL ILLUSTRATED EQUIPMENT INCLUDED

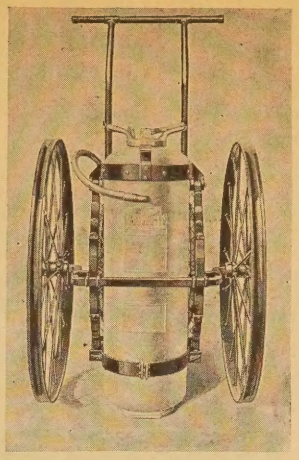


THE FINEST FIRE HOSE CART MONEY CAN BUY!

Hose Capacity — Dimensions — Shipping Weights — Prices

Catalog Number	K204	K205	K206
Height of Wheels, in inches	42	48	52
Extreme Width, in inches	48	54	54
Length, in inches	93	102	105
Weight, Complete, pounds	218	250	262
Shipping Weight, crated, pounds	275	320	330
Capacity of 2½" Rubber-lined Mill Hose	300 ft.	400 ft.	500 ft.
Capacity of 2½" Double Jacket or Rubber Hose	150 ft.	250 ft.	300 ft.
Price	$99.00	$111.00	$123.00

AUTOMATIC NON-FREEZE CHEMICAL ENGINE

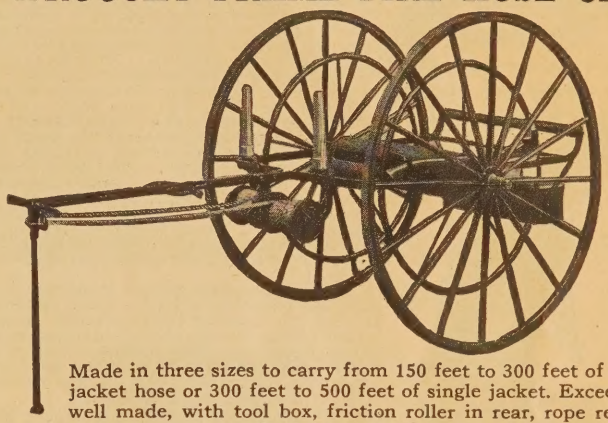


This new Automatic Non-Freeze Chemical Fire Engine is always ready for immediate use, regardless of below-zero temperatures. Keep it in any unheated warehouse or shed — even outdoors. There's nothing that can freeze or clog. In the coldest weather you can have almost instantly a big volume of liquid under high pressure that will quickly put out any ordinary fire before it gets dangerous.

The tank is filled with a solution of Crystalline, a non-freezing liquid with unusual fire extinguishing properties. The pressure is furnished by a drawn steel cartridge charged with liquid carbon dioxide, which is unaffected by temperature. All working parts thoroughly protected. Will last forever without deterioration.

No. K200 Non-Freeze Chemical Engine, complete **$312.00**

WROUGHT FRAME FIRE HOSE CART



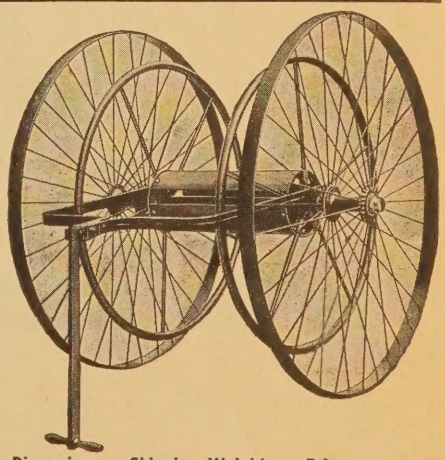
Made in three sizes to carry from 150 feet to 300 feet of double jacket hose or 300 feet to 500 feet of single jacket. Exceedingly well made, with tool box, friction roller in rear, rope reel and rope, two cone type nozzle holders, artillery type wood wheels, all nicely painted and striped.

Hose Capacity — Dimensions — Shipping Weights — Prices

Catalog Number	K201	K202	K203
Height of Wheels, in inches	42	48	52
Extreme Width of Cart, in inches	48	54	54
Extreme Length of Cart, in inches	86	94	100
Weight, Complete, in pounds	225	255	270
Shipping Weight, crated, pounds	290	325	330
Capacity of 2½" Rubber-lined Mill Hose	300 ft.	400 ft.	500 ft.
Capacity of 2½" Double Jacket or Rubber Hose	150 ft.	250 ft.	300 ft.
Price	$99.00	$111.00	$123.00

A LOW-PRICED COMPACT HOSE CART FOR USE WHERE SPACE IS LIMITED.

STEEL CONSTRUCTION THROUGHOUT



Hose Capacity — Dimensions — Shipping Weights — Prices

Catalog Number	K207	K208	K209
Height of Wheels, in inches	42	48	52
Extreme Outside Width, in inches	42	48	54
Length, in inches	50	55	57
Weight, in pounds, bundled for shipping	135	170	200
Capacity of 1½" Rubber-lined Mill Hose	500 ft.	650 ft.	800 ft.
Capacity of 2½" Rubber-lined Mill Hose	250 ft.	400 ft.	500 ft.
Price	$40.00	$52.00	$64.00

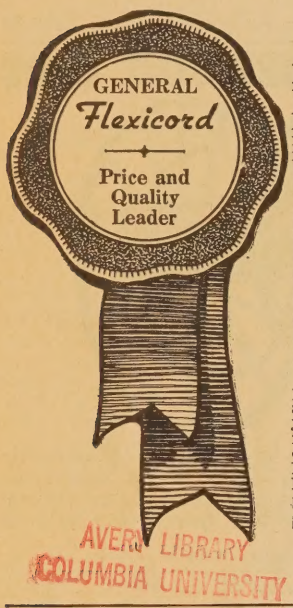
Take Advantage of General's 30-day Free Trial Offer — Pay No Money Until Convinced

World's Finest Fire Hose

Flexicord is our best grade of double jacket hose, pliable, flexible, compact and unconditionally guaranteed for six years of Fire Department service. Incorporated into its manufacture are all of General's modern Fire Hose improvements, Uniform Tension in Weaving, Flat Cure, Laminated Rubber Tube, etc. Permatite treatment also, if desired.

Both jackets of Flexicord are of a long-lasting, heavy-weight, basket weave construction. Lining is of finest quality Plantation Smoked Sheet rubber, imported from India. Flexicord is a hose that will stand up under all fire fighting conditions, remaining sturdy and dependable over a period of many years. It has been tried and tested by Fire Chiefs from Maine to California and stands, solely on its merits, head and shoulders over competitive brands which are higher in price and vastly inferior in construction. Flexicord is made not only to withstand years of hard service and abuse, but also to retain its flexibility and compactness throughout its long life. Because of the uniform tension employed in weaving its jackets, Flexicord will not wriggle or thrash about under high pressures. We strongly recommend Flexicord to all departments requiring a good, serviceable double jacket hose.

SIX YEAR GUARANTEE



AVERY LIBRARY
COLUMBIA UNIVERSITY

We know from experience that Flexicord will outlast any competitive brand of fire hose. That's why we can afford to guarantee it for six years of hard service. The cotton used in the jackets is under constant control at all times during the weaving process, in order to assure positive uniformity. Production control tests made at the mills are verified and carefully checked before any yarn is released for Flexicord manufacture. This uniform quality of yarn plus uniform tension in the weaving process produces durability and dependability. All this is necessary to produce a finished hose of finest quality.

When Flexicord fills with water, the pressure is divided evenly throughout every square inch of the jacket. It will stand a pressure test of 400 lbs. and we have submitted it to pressures as high as 800 lbs. before the bursting point was reached. It's no wonder we proclaim Flexicord the finest hose on the market. Laboratory tests have proven that Flexicord, with its uniformly woven jacket, generally has a bursting strength approximately 30% higher than loosely woven hose of the same weight. Also, because of the even distribution of yarn, uniform weaving adds years to the life of the hose and assures you of safety and dependability always. Every length of General Fire Hose shipped from our mills bears this important uniform weaving feature. NO OTHER FIRE HOSE, REGARDLESS OF PRICE, OFFERS SUCH FLEXIBILITY, DURABILITY AND EASE OF HANDLING.

Flexicord bears a rubber lining of hand-made, five-ply construction. The five plies are folded over into a tube, making a laminated construction and insuring against pin holes or imperfections. A backing is inserted between the tube and jacket which insures strong adhesion and a smooth inner surface when the hose is under pressure, thus reducing friction loss to a minimum. Because of its finely constructed rubber tube, you can bend or fold Flexicord without fear of damage. Kinking or rough handling will not harm it and it will remain live and pliable as long as the hose is in service.

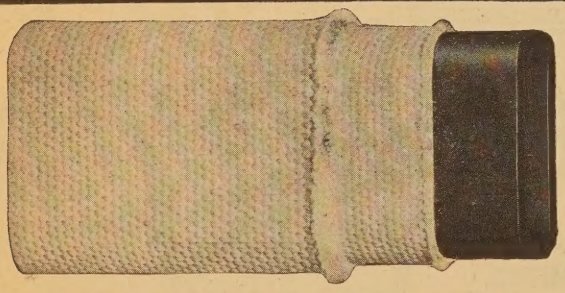
No. 574 Flexicord 2½" Double Jacket Fire Hose, per foot.....80c

No. 576 Same with PERMATITE treatment, per foot.....87c

We will attach your old couplings free. If you prefer new ones, we can supply Underwriters Pin Lug Couplings at $4.65 per set; Rocker Lug Couplings, $5.45 per set. Be sure to specify thread or send sample coupling when ordering.

The Best Fire Hose Money Can Buy!

GENERAL SPECIAL DOUBLE JACKET HOSE
OUR VALUE AND QUALITY LEADER



FOUR YEAR GUARANTEE

A fine grade of double jacket hose, bearing all of the famous General Fire Hose improvements, Laminated Rubber Tube, Uniform Tension in Weaving, Flat Cure, etc. General Special is compact and collapsible, made to the same specifications as our more expensive grades, except for the jacket which is woven of a lighter weight yarn. We have developed it especially for use by Volunteer Departments who want good double jacket hose at an economical price. Because of its light weight and strong, even texture, it is extremely flexible and easy to work with. Given a minimum amount of care, it will serve as an effective means of protection for many years.

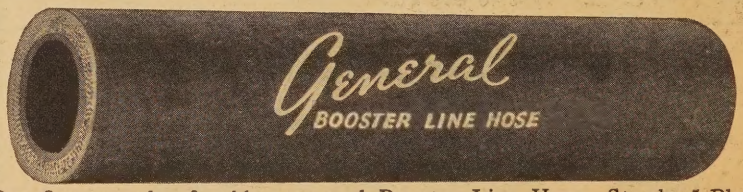
We guarantee every length of General Special Double Jacket to stand a pressure test of 400 lbs., the same test pressure given our better grades. We invite you to try General Special at our risk. Send for a sample and examine its quality construction at your leisure. Backed by the famous General guarantee, this hose is a definite leader in quality and value.

No. 568 General Special 2½" Double Jacket Fire Hose, per foot 55c

No. 569 Same with PERMATITE treatment, per foot.....62c

Old couplings attached free. New Pin Lug Couplings $4.65 per set; new Rocker Lugs $5.45.

GENERAL ¾ and 1-INCH 5-PLY RUBBER COVERED BOOSTER LINE HOSE



Our finest grade of rubber-covered Booster Line Hose. Sturdy 5-Ply construction throughout, pressure tested to 400 lbs. Red rubber cover, smooth finish. Dries very quickly. Made in 50-ft. lengths only.

No. 326 General ¾" Booster Line Hose, per ft.....24c

No. 327 General 1" Booster Line Hose, per ft.....28c

Hexagonal Swivel Couplings for ¾" hose, $2.25; for 1" hose, $2.45

UNDERWRITERS LABEL CHEMICAL HOSE

Heavily wrapped construction, 5-Ply. For use with Chemical Engines where unusually high pressures are generated. Red cover. Tested to 400 lbs. pressure. Be sure to specify thread when ordering.

No. 330 Underwriters ¾" Chemical Hose, per foot.....36c

No. 331 Underwriters 1" Chemical Hose, per foot.....43c

Hexagonal Swivel Couplings for ¾" hose, $2.25 per set; for 1" hose, $2.45 per set.

REMEMBER OUR GUARANTEE

Every General product is unconditionally guaranteed to satisfy you. If you find anything not as represented or unsatisfactory for any reason, we want you to return it and your money will be promptly refunded. Our reputation for honesty and integrity, built up over a period of 36 years in the Fire Equipment business, is your assurance of the A1 quality of every item described.

OUR FINEST GRADE OF SINGLE JACKET HOSE—ONLY 59c Per Foot

Value Beyond Belief

Many Municipalities and Volunteer Fire Departments prefer a single jacket hose. It is easier to handle, lighter in weight and not so difficult to work with. In General City Service Super, we offer a single jacket hose of finest quality, at a special low price which every Fire Department can afford.

Quality has not been sacrificed in order to offer this hose at such an economical, money-saving price. The same painstaking effort and precision manufacturing methods used in producing our more expensive double jacket brands are incorporated into the manufacture of General City Service Super. This hose comes to you with all of our modern improvements, Flat Cure, Uniform Tension in Weaving, Laminated Rubber Tube, etc. Permatite treatment, too, is available if desired. General City Service Super is equal, if not superior, to any competitive brand of single jacket hose on the market, many of which sell at almost double the price.

SIX YEAR GUARANTEE

General City Service Super is pressure tested to 350 lbs. and its bursting point is well over 600 lbs. It is unconditionally guaranteed for six years of Fire Department service. Its jacket is closely woven of heavy yarn, uniformly distributed. Lining is of finest Plantation Smoked Sheet rubber, especially imported from India for this particular purpose. The rubber lining is of hand made, five-ply construction. The five plies are folded over into a tube, making a laminated construction and insuring against pin holes or imperfections. A backing is inserted between tube and jacket which insures strong adhesion and a smooth inner surface when the hose is under pressure, thus reducing friction loss to a minimum. Because of this finely constructed rubber tube, you can bend or fold General City Service Super without fear of damage. Kinking or rough handling will not harm it and it will remain live and pliable as long as the hose is in service.

If you require a single jacket hose, you will make no mistake by ordering General City Service Super. Remember, too, that there is an additional 5% discount for cash or C.O.D. and we deliver free on all orders amounting to 200 feet or more. Generous free sample gladly furnished on request.

No. 594 General City Service Super 2½" Single Jacket Fire Hose, per foot....59c

No. 596 Same with PERMATITE treatment, per foot.....64c

We will attach your old couplings free if they are in good condition. If new couplings are desired, we can furnish Underwriters Pin Lug Couplings at $3.95 per set; Rocker Lug Couplings $4.75 per set. Be sure to specify thread or send sample coupling when ordering.

General City Service Special Single Jacket Hose . . . *Our Quality and Value Leader*

If you require a single jacket of lighter weight than General City Service Super, we recommend General City Service Special, which is exactly the same in design and construction except that its jacket is woven of a medium weight yarn.

General City Service Special is pressure tested to 300 lbs. and has resisted bursting tests up to 550 lbs. It is unconditionally guaranteed for 4 years of Fire Department service.

No. 586 General City Service Special 2½" Single Jacket Fire Hose, per foot..38c

No. 587 Same with PERMATITE treatment, per foot.....43c

Old couplings attached free. New Pin Lug Couplings $3.95 per set; Rocker Lugs $4.75 per set.

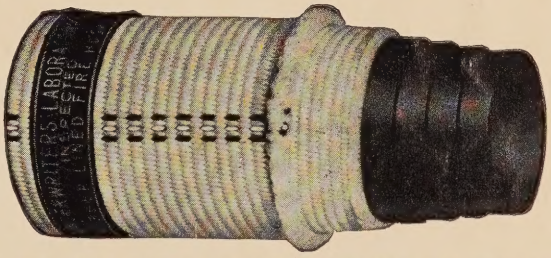
FLAX TOW UNLINED LINEN HOSE

Fully approved by the Underwriters. For inside use in buildings. No rubber lining to deteriorate. Finest hose obtainable for indoor protection.

No. 185 Flax Tow Unlined Linen Hose

1" per ft.	29c	Couplings per set	$1.00
1¼" per ft.	33c	Couplings per set	1.25
1½" per ft.	39c	Couplings per set	1.50
2" per ft.	46c	Couplings per set	2.00
2½" per ft.	53c.	Couplings per set	2.75

UNDERWRITERS LABELED FIRE HOSE—SINGLE AND DOUBLE JACKET



MADE TO THE RIGID SPECIFICATIONS OF THE UNDERWRITERS LABORATORIES

Fire Chiefs who demand hose manufactured to specifications, usually choose hose bearing the Underwriters Label. Many of the large metropolitan cities use it exclusively. The Underwriters conduct exhaustive tests of every length of labeled hose manufactured before it is allowed to leave the mill. No matter who the manufacturer may be, the hose is of exactly the same construction, manufactured to the same rigid specifications. The record of service of this labeled hose has been truly remarkable. Very rarely are cases reported in which Underwriters Hose has failed to stand up due to defect in manufacture. The value of this record and confidence in the ability of the Underwriters Laboratories to conduct exacting tests has resulted in many of our large cities adopting Underwriters hose as standard.

Prices on Underwriters hose fluctuate very rapidly and the prices printed below are those in effect at the time this catalog is printed. If at any time during the life of this catalog, the prices should be raised or lowered, your order will be billed at the new figure.

No. 560 Underwriters Labeled 2½" Single Jacket Fire Hose, per foot.....51c

No. 561 Same with PERMATITE treatment, per foot.....56c

No. 562 Underwriters Labeled 2½" Double Jacket Fire Hose, per foot.....61c when ordering or send sample coupling.

No. 563 Same with PERMATITE treatment, per foot.....69c

We will attach your old couplings free of charge if they are in good condition. If you want new couplings, we can supply Genuine Underwriters Pin Lug Couplings for single jacket hose at $3.95 per set; for double jacket, $4.65 per set. Rocker Lug Couplings for single jacket, $4.75; for double jacket, $5.45. Specify thread.

You can save 5% on your hose orders by sending cash with your order or asking us to ship C.O.D. Remember also that all hose shipments of 200 feet or more are delivered free to your town.

LOST VALVES AND SHUT-OFFS FOUND QUICKLY AND EASILY WITH THIS SENSATIONAL NEW MAGNETIC AQUA VALVE-BOX LOCATOR

$25.00

There's no need to tell you how costly it is to have your men spend hours and days trying to find a missing valve-box or shut-off . . . not to mention the expense of digging up concrete walks and streets only to find they've guessed wrong on the location. Now all this wasteful hunting and guessing can be eliminated—now you can determine with *absolutely certainty* the *exact* position of any "lost" valve-box in a fraction of time, simply by using the new AQUA Valve-Box Locator. Not that the dipping needle principle is new—dipping needles have been sold for years, but try to use one of the old-fashioned type without the back-breaking job of bending over and crawling on your knees . . . try to read one without practically standing on your head while the needle spins endlessly like a whirling dervish. These are but a few of the objectionable features of the old style needles that we have eliminated in this new AQUA Magnetic Valve-Box Locator. The AQUA is a new streamlined compact instrument that is easy to use, easy to read, more sensitive, less likely to be jolted out of adjustment; it is rugged and will give you years of uninterrupted service.

5% DISCOUNT FOR CASH OR C.O.D. ORDERS

IMPORTANT! *CHECK THESE AQUA FEATURES*

1. Genuine leather shoulder strap carrying case that permits convenient use and reading of the instrument from a standing or walking position.
2. Genuine 35% Cobalt alloy steel needle that takes a stronger magnetic charge and retains its magnetic strength much longer than steels formerly used.
3. Genuine sapphire jewel bearings mounted in jewel screws with 100 threads to the inch—assuring finer and more permanent adjustment of the conical bearings.
4. Improved air-dampened needle that has been especially designed to eliminate practically all flywheel action and pendulum swing so objectionable in a valve-box locator.
5. New gum rubber mountings for bearing bracket to protect the needle from jolts and jars that tend to demagnetize it.
6. Exclusive AQUA mirror arrangement that permits top view reading of the instrument and does away with stooping.
7. Convenient chrome-nickel handle to be used when instrument is removed from leather case for use in locating shut-offs in difficult places, such as under shrubbery, etc.
8. Accurate compass. To be used as a compass, simply hold front of the case face up.
9. Will locate valves through concrete, macadam or any type of paving.

For Maximum Efficiency and Comfort, the AQUA Can't Be Surpassed

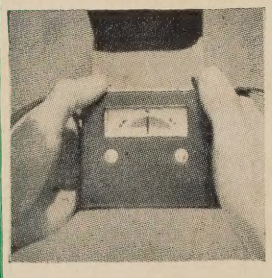
Every waterworks and every utility company has shut-offs that have become covered with soil, grass, concrete walks or fill-ins. Of course, their locations appear on your records, but often records are misplaced, plates and surface conditions change and your maintenance crew wastes hours trying to locate a box that is literally "right under their noses" all the time.

For years there have been many types of magnetic dipping needles available for use in finding service boxes and shut-offs. With few exceptions they served satisfactorily, but little effort has ever been made to improve them. Now we have perfected a new type dipping needle that obsoletes all previously made instruments . . . a valve-box locator that makes child's play out of your maintenance job.

You May Try It Out On Suspicion Make a 30-Day No-Obligation Test

It's easy for us to prove every claim made for the AQUA. Try it out for 30 days without risk and with no money to pay until you're satisfied. Write a letter or send a postcard asking us to ship on approval. Send no money. Try the AQUA for 30 days before you decide whether or not you'll keep it. Figure up what it saves you in time and labor during the month you have it. This offer applies to any Waterworks or Municipality anywhere.

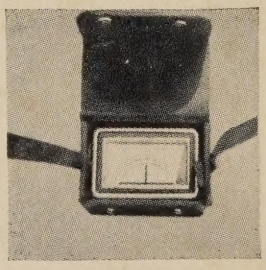
No. K359 AQUA Magnetic Valve-Box Locator complete with leather case and shoulder strap..... **$25.00**



Use as compass by turning front of case up to determine North and South line, then turn instrument top side up so that arrows on top dial point North and South.

Walk along the suspected area carrying the instrument in leather case by means of shoulder strap.

If necessary to get under shrubbery, remove instrument from leather case and use handle as shown above.



When the needle points to largest reading on top dial you have located the exact position of the valve-box.

This is the journey's end. You've found the missing box in less time than it takes to read these simple instructions.

GENERAL CITY SERVICE CO., DETROIT, MICHIGAN